vizioncore

vFoglight™

formerly vCharter Pro™

Installing on Windows with an Embedded MySQL Database

DELL

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Installation and Setup Guide - Installing on Windows with an Embedded MySQL Database
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Introduction to this Guide

This chapter provides information about what is contained in the **Installation and Setup Guide**. This guide provides you with detailed instructions for installing the vFoglight Management Server in a Windows environment with an embedded MySQL database. It also provides information about the vFoglight documentation suite and Vizioncore.

This chapter contains the following sections:

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About vFoglight

vFoglight is an application management solution that reduces or eliminates service disruptions to unify IT and the business. Unlike other solutions, it provides a correlated, 360 degree view of your applications from end user to database and from service levels to infrastructure—to source the root cause of every incident impacting your business and fix them quickly. vFoglight correlates data from multiple perspectives into a single version of the truth to provide deep insight into the service relationships that exist between end users, the business and infrastructure components. Its unique adaptive technology rapidly adjusts to change for improved application performance and service levels, reduced operational cost and risk, and enhanced visibility for all stakeholders.

About this Guide

This guide walks you through a vFoglight installation. Before you begin, ensure that your system and development environments are set up correctly. For more information, refer to the *vFoglight System Requirements and Platform Support Guide*.

This guide is organized as follows:

Chapter 1, Before Installing vFoglight — This chapter introduces vFoglight and outlines the steps you must take in order to assure a successful installation.

Chapter 2, Installing vFoglight — This chapter guides you through the installation process. It also provides information on the vFoglight directory structure, and how to adjust certain vFoglight settings to best suit your environment.

Chapter 3, Running the vFoglight Management Server — This chapter outlines how to start and stop the vFoglight Management Server, how to initialize the database, how to migrate data from an existing database, and how to log into vFoglight.

Appendix A, Switching from an Embedded to an External Database— This appendix describes how to migrate and reconfigure an embedded database used with the vFoglight Management Server to an external database.

vFoglight Documentation Suite

The vFoglight documentation suite is made up of the core documentation set plus documents set for advanced configurations. Documentation is provided in a combination of online help and PDF.

- **Online Help:** You can open online help by selecting the Help tab in the action panel.
- **PDF:** The *Getting Started Guide*, *What's New Guide*, *System Requirements and Platform Support Guide*, *Installation and Setup Guide* set, *Administration and Configuration Guide*, *vFoglight User Guide*, *Command-Line Reference Guide*, *Web Component Guide*, and *Web Component Tutorial*, are provided as PDF files. The PDF guides are included in the zip file downloaded from Vizioncore. Adobe® Reader® is required.

Core Documentation Set

The core documentation set consists of the following:

- *Release Notes* (PDF)
- *Getting Started Guide* (PDF)
- *What's New Guide* (PDF)
- *System Requirements and Platform Support Guide* (PDF)
- *Installation and Setup Guide* set (all in PDF format):
  - Installation and Setup Guide — *Installing on Windows with an Embedded MySQL Database*
  - Installation and Setup Guide — *Installing on Windows with an External MySQL Database*
  - Installation and Setup Guide — *Installing on Windows with an External Oracle Database*
- *Administration and Configuration Guide* (PDF and online help)
- *vFoglight User Guide* (PDF and online help)
- Advanced Configuration Guide set (all in PDF format):
  - *Command-Line Reference Guide* (PDF and online help)
  - *Web Component Guide* (PDF and online help)
  - *Web Component Tutorial* (PDF and online help)
  - *Web Component Reference* (online help)

Cartridge Documentation Sets

When you deploy a cartridge, the documentation set for the cartridge is installed. The online help for the cartridge is integrated automatically with the core vFoglight help. When you open the help, the name of the cartridge is displayed in a top level entry within the table of contents.

Some cartridges include additional PDF guides, which may be one or more of the following: a *Getting Started Guide*, a *Reference Guide*, an *Installation Guide*, or the online help as a *User Guide*.

Feedback on the Documentation

We are interested in receiving feedback from you about our documentation. For example, did you notice any errors in the documentation? Were any features undocumented? Do you have any suggestions on how we can improve the documentation? All comments are welcome. Please submit your feedback to the following email address:

info@vizioncore.com

Please do not submit Technical Support related issues to this email address.

Text Conventions

This section outlines an approach for using this guide, reviews the text conventions that are used, and summarizes the rest of the documentation set.

The following table summarizes how text styles are used in this guide:

Convention	Description
`Code`	Monospace text represents code, code objects, and command-line input. This includes: • Java language source code and examples of file contents • Classes, objects, methods, properties, constants, and events • HTML documents, tags, and attributes
`Variables`	Monospace-plus-italic text represents variable code or command-line objects that are replaced by an actual value or parameter.

Convention	Description
Interface	Bold text is used for interface options that you select (such as menu items) as well as keyboard commands.
Files, components, and documents	Italic text is used to highlight the following items: • Pathnames, file names, and programs • Figure captions • The names of other documents referenced in this guide

About Vizioncore Inc.

Vizioncore was formed in July 2002 as a consulting and software-development company with the mission to create easy-to-use software solutions that performed reliable and repeatable automation of datacenter functions specifically for the Citrix platform. A main corporate goal was to enable business partners to offer solutions that targeted real-world IT issues and provided the best possible installation and automation for their clients' systems.

Vizioncore's solutions have proved successful in organizations from small to mid-sized businesses to large enterprises, in a wide variety of vertical industries, including Financial Services, Government, Healthcare, Manufacturing, and High Tech. Vizioncore, Inc. can be found in offices around the globe and at www.vizioncore.com.

Contacting Dell

Note: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit http://support.dell.com.
2. Verify your country or region in the Choose A Country/Region drop-down menu at the bottom of the page.
3. Click Contact Us on the left side of the page.Note: Toll-free numbers are for use within the country for which they are listed.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

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Antigua and Barbuda	Web Address E-Mail Address Technical Support., Customer Service, Sales	www.Dell.com.ag la-techsupport@dell.com 1-800-805-5924
Aomen	Technical Support Dell™ Dimension™, Dell Inspirion™, Dell Optiplex™, Dell Lattitude™, and Dell Precision™Servers and Storage	0800-105 0800-105
Argentina (Buenos Aires) International Access Code: 00 Country Code: 54 City Code: 11	Web Address E-Mail Address for Desktop/ Portable Computers E-Mail Address for Servers and EMC® Storage Products Customer Service Technical Support Technical Support Services Sales	www.dell.com.ar la-techsupport@dell.com la_enterprise@dell.com toll-free: 0-800-444-0730 toll-free: 0-800-444-0733 toll-free: 0-800-444-0724 0-800-444-3355
Aruba	Web Address E-Mail Address Technical Support., Customer Service, Sales	www.Dell.com/aw la-techsupport@dell.com toll-free: 800-1578
Australia (Sydney) International Access Code: 0011 Country Code: 61 City Code: 2	Web Address Contact Dell Web Address Technical Support., Customer Service, Sales	support.ap.dell.com support.ap.dell.com/contactus 13DELL-133355

Austria (Vienna) International Access Code: 900 Country Code: 43 City Code: 1	Web Address	Support.euro.dell.com
	E-Mail Address	Tech_support_central_europe@dell.com
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	Home/Small Business Fax	0820 240 530 49
	Home/Small Business Customer Service	0820 240 530 14
	Home/Small Business Support	0820 240 530 17
	Preferred Accounts/Corporate Customer	0820 240 530 16
	Service Preferred Accounts/Corporate Customer	0820 240 530 17
	Switchboard	0820 240 530 00
Bahamas	Web Address	www.dell.com/bs
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	Technical Support., Customer Service, Sales	toll-free: 1-866-874-3038
Barbados	Web Address	www.dell.com/bb
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	Technical Support., Customer Service, Sales	1-800-534-3142
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	General Support Fax	02 481 92 95
	Customer Service	02 713 15 65
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	Customer Service Fax	51 2104 5480
	Sales	0800 722 3498
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Brunei Country Code: 673	Technical Support (Penang, Malaysia)	604 633 4966
	Customer Service (Penang, Malaysia)	604 633 4888
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Canada (North York, Ontario) International Access Code: 011	Online Order Status Web Address	www.dell.ca/ostatus
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	Home/Home Office	toll-free:1-800-847-4096
	Small Business	toll-free:1-800-906-3355
	Medium/Large Business, Government, Education	toll-free:1-800-387-5757
	Hardware Warranty Phone Support	
	Computers for Home/Home Office	toll-free:1-800-847-4096
	Computers for Small/Medium/Large Business Government	toll-free:1-800-387-5757
	Printers, Projectors, Televisions, Handheld, Digital	1-877-335-5767
	Jukebox, and Wireless Sales	toll-free:1-800-999-3355
	Home and Home Office Sales	toll-free:1-800-387-5752
	Small Business	toll-free:1-800-387-5755
	Medium/Large Business, Government	1 866 440 3355
	Spare Parts and Extended Service	
Cayman Islands	E-Mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	1-877-262-5415

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Costa Rica	Web Address E-Mail Address Technical Support, Customer Service, Sales	www.dell.com/cr la-techsupport@dell.com 0800-012-0231
Czech Republic (Prague) International Access Code: 00 Country Code: 420	Web Address E-Mail Address Technical Support Customer Service Fax Technical Fax Switchboard	support.euro.dell.com czech_dell@dell.com 22537 2727 22537 2707 22537 2714 22537 2728 22537 2711
Denmark (Copenhagen) International Access Code: 00 Country Code: 45	Web Address Technical Support Customer Service – Relational Home/Small Business Customer Service Switchboard – Relational Switchboard Fax – Relational Switchboard – Home/Small Business Switchboard Fax – Home/Small Business	Support.euro.dell.com 7023 0182 7023 0184 3287 5505 3287 1200 3287 1201 3287 5000 3287 5001
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El Salvador	Web Address	www.dell.com/sv
	E-Mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	800-6132
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	Customer Service	0207 533 538
	Switchboard	0207 533 533
	Sales under 500 employees	0207 533 540
	Fax	0207 533 530
	Sales over 500 employees	0207 533 533
	Fax	0207 533 530
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	Switchboard	0825 004 700
	Switchboard (calls from outside of France)	04 99 75 40 00
	Sales	0825 004 700
	Fax	0825 004 701
	Fax (calls from outside of France)	04 99 75 40 01
	Corporate	
	Technical Support	0825 004 719
	Customer Service	0825 338 339
	Switchboard	55 94 71 00
	Sales	01 55 94 71 00
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	Gold Service Technical Support	00800-44 14 00 83
	Switchboard	2108129810
	Gold Service Switchboard	2108129811
	Sales	2108129800
	Fax	2108129812
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	Phone Numbers	080-25068032 or 080-25068034 or your city STD code + 60003355 or toll-free: 1-800-425-8045
	Server Support	
	E-mail Address	india_support_Server@dell.com
	Phone Numbers	080-25068032 or 080-25068034 or your city STD code + 60003355 or toll-free: 1-800-425-8045
	Gold Support Only	
	E-mail Address	eec_ap@dell.com
	Phone Numbers	080-25068033 or your city STD code + 60003355 or toll-free: 1-800-425-9045
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	Home and Small Business	India_care_HSB@dell.com toll-free : 1800-4254051
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	Home and Small Business	1600 33 8046

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	Home computers	1850 543 543
	At Home Support	1850 200 889
	Sales	
	Home	1850 333 200
	Small Business	1850 664 656
	Medium Business	1850 200 646
	Large Business	1850 200 646
	E-mail Address	Dell_IRL_Outlet@dell.com
	Customer Service	
	Home and Small Business	204 4014
	Business (greater than 200 employees)	1850 200 982
	General	
	Fax/Sales fax	204 0103
	Switchboard	204 4444
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	Corporate Customer Service (dial within U.K. only)	0870 907 4499
	U.K. Sales (dial within U.K. only)	0870 907 4000
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	Customer Service	02 696 821 14
	Fax	02 696 821 13
	Switchboard	02 696 821 12
	Corporate	
	Technical Support	02 577 826 90
	Customer Service	02 577 825 55
	Fax	02 575 035 30
	Switchboard	02 577 821
Jamaica	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales (dial from within Jamaica only)	1-800-440-920

Japan (Kawasaki) International Access Code: 001 Country Code: 81 City Code: 44	Web Address	support.jp.dell.com
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	Technical Support outside of Japan - Dimension and Inspiron	81-44-520-1435
	Technical Support - Dell Precision, OptiPlex, and Latitude	toll-free: 0120-198-433
	Technical Support outside of Japan - Dell Precision, OptiPlex, and Latitude	81-44-556-3894
	Technical Support - Dell PowerApp™, Dell PowerEdge™, Dell PowerConnect™, and Dell PowerVault™,	toll-free: 0120-198-498
	Technical Support outside of Japan - PowerApp, PowerEdge, PowerConnect, and PowerVault	81-44-556-4162
	Technical Support - Projectors, PDAs, Printers, Routers	toll-free: 0120-981-690
	Technical Support outside of Japan - Projectors, PDAs, Printers, Routers	81-44-556-3468
	Faxbox Service	044-556-3490
	24-Hour Automated Order Status Service	044-556-3801
	Customer Service	044-556-4240
	Business Sales Division - up to 400 employees	044-556-1465
	Preferred Accounts Division Sales - over 400 employees	044-556-3433
	Public Sales - government agencies, educational institutions, and medical institutions	044-556-5963
	Global Segment Japan	044-556-3469
	Individual User	044-556-1657
	Individual User Online Sales	044-556-2203
	Individual User Real Site Sales	044-556-4649
	Switchboard	044-556-4300
Korea (Seoul) International Access Code: 001 Country Code: 82 City Code: 2	Web Address	Support.ap.dell.com
	Technical Support, Customer Service	toll-free: 080-200-3800
	Technical Support - Dimension, PDA, Electronics, and Accessories	toll-free: 080-200-3801
	Sales	toll-free: 080-200-3600
	Fax	2194-6202
	Switchboard	2194-6000
Latin America	Customer Technical Support (Austin, Texas, U.S.A.)	512 728-4093
	Customer Service (Austin, Texas, U.S.A.)	512 728-3619
	Fax (Technical Support and Customer Service) (Austin, Texas, U.S.A.)	512 728-3883
	Sales (Austin, Texas, U.S.A.)	512 728-4397
	SalesFax (Austin, Texas, U.S.A.)	512 728-4600 or 512 728-3772
Luxemborg International Access Code: 00 Country Code: 352	Web Address	Support.euro.dell.com
	Support	3420808075
	Home/Small Business Sales	+32 (0)2 713 15 96
	Corporate Sales	26 25 77 81
	Customer Service	+32 (0)2 481 91 19
	Fax	26 25 77 82
Macao Country Code: 83	Technical Support	toll-free: 0800 105
	Customer Service (Xiamen, China)	34 160 910
	Transaction Sales (Xiamen, China)	29 693 115

Malaysia (Penang) International Access Code: 00 Country Code: 60 City Code: 4	Web Address	Support.ap.dell.com
	Technical Support - Dell Precision, OptiPlex, and Latitude	toll-free: 1800 880 193
	Technical Support - Dimension, Inspiron, and Electronics and Accessories	toll-free: 1800 881 306
	Technical Support - PowerApp, PowerEdge, PowerConnect, and PowerVault	toll-free: 1800 881 386
	Customer Service	toll-free: 1800 881 306 (option 6)
	Transaction Sales	toll-free: 1800 888 202
	Corporate Sales	toll-free: 1800 888 213
Mexico International Access Code: 00 Country Code: 52	Web Address	www.dell.com/mx
	E-mail Address	la-techsupport@dell.com
	Customer Technical Support	001-877-384-8979 or 001-877-269-3383
	Sales	50-81-8800 or 01-800-888-3355
	Customer Service	001-877-384-8979 or 001-877-269-3383
	Main	50-81-8800 or 01-800-888-3355
Montserrat	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	Toll-free: 1-866-278-6822
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	Web Address	support.euro.dell.com
	Technical Support	020 674 45 00
	Technical Support Fax	020 674 47 66
	Home/Small Business Customer Service	020 674 42 00
	Relational Customer Service	020 674 43 25
	Home/Small Business Sales	020 674 55 00
	Relational Sales	020 674 50 00
	Home/Small Business Sales Fax	020 674 47 75
	Relational Sales Fax	020 674 47 50
	Switchboard	020 674 50 00
	Switchboard Fax	020 674 47 50
New Zealand International Access Code: 00 Country Code: 64	Web Address	Support.ap.dell.com
	E-mail Address	Support.ap.dell.com/contactus
	Technical Support, Customer Service, Sales	0800 441 567
Nicaragua	Web Address	www.dell.com/ni
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	001-800-220-1377
Norway (Lysaker) International Access Code: 00 Country Code: 47	Web Address	Support.euro.dell.com
	Technical Support	671 16882
	Relational Customer Service	671 17575
	Home/Small Business Customer Service	231 62298
	Switchboard	671 16800
	Fax Switchboard	671 16865
Panama	Web Address	www.dell.com/pa
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	011-800-507-1264
Peru	Web Address	www.dell.com/pe
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	0800-50-669

Poland (Warsaw) International Access Code: 011 Country Code: 48 City Code: 22	Web Address E-mail Address Customer Service Phone Customer Service Sales Customer Service Fax Reception Desk Fax Switchboard	support.euro.dell.com pl_support_tech@dell.com 57 95 700 57 95 999 57 95 999 57 95 806 57 95 998 57 95 999
Portugal International Access Code: 00 Country Code: 351	Web Address Technical Support Customer Service Sales Fax	Support.euro.dell.com 707200149 800 300 413 800-300-410 or 800-300 -411 or 800-300-412 or 21-422-07-10 21-424-01-12
Puerto Rico	Web Address E-mail Address Technical Support, Customer Service, Sales	www.dell.com/pr la-techsupport@dell.com 1-877-537-3355
St. Kitts and Nevis	Web Address E-mail Address Technical Support, Customer Service, Sales	www.dell.com/kn la-techsupport@dell.com toll-free: 1-866-540-3355
St. Lucia	Web Address E-mail Address Technical Support, Customer Service, Sales	www.dell.com/lc la-techsupport@dell.com toll-free: 1-866-464-4352
St. Vincent and the Grenadines	Web Address E-mail Address Technical Support, Customer Service, Sales	www.dell.com/vc la-techsupport@dell.com toll-free: 1-866-464-4353
Singapore International Access Code: 005 Country Code: 65	NOTE: The phone numbers in this section should be called from within Singapore or Malaysia only. Web Address Technical Support - Dimension, Inspiron, and Electronics and Accessories Technical Support - OptiPlex, Latitude, and Dell Precision Technical Support - PowerApp, PowerEdge, PowerConnect, and PowerVault Customer Service Transaction Sales Corporate Sales	 support.ap.dell.com toll-free: 1 800 394 7430 toll-free: 1 800 394 7488 toll-free: 1 800 394 7478 toll-free: 1 800 394 7430 (option 6) toll-free: 1 800 394 7412 toll-free: 1 800 394 7419
Slovakia (Prague) International Access Code: 00 Country Code: 421	Web Address E-mail Address Technical Support Customer Service Fax Tech Fax Switchboard (Sales)	support.euro.dell.com czech_dell@dell.com 02 5441 5727 420 22537 2707 02 5441 8328 02 5441 8328 02 5441 8328 02 5441 7585
South Africa (Johannesburg) International Access Code: 09/091 Country Code: 27 City Code: 11	Web Address E-mail Address Gold Queue Technical Support Customer Service Sales	support.euro.dell.com dell_za_suppor@dell.com 011 709 7713 011 709 7710 011 709 7707 011 709 7700

Spain (Madrid) International Access Code: 00 Country Code: 34 City Code: 91	Web Address	Support.euro.com
	Home and Small Business	
	Technical Support	902 100 130
	Customer Service	902 118 540
	Sales	902 118 541
	Switchboard	902 118 541
	Fax	902 118 539
	Corporate	
	Technical Support	902 100 130
	Customer Service	902 115 236
	Switchboard	91 722 92 00
	Fax	91 722 95 83
Sweden (Upplands Vasby) International Access Code: 00 Country Code: 46 City Code: 8	Web Address	support.euro.dell.com
	Technical Support	08 590 05 199
	Relational Customer Service	08 590 05 642
	Home/Small Business Customer Service	08 587 70 527
	Employee Purchase Program (EPP) Support	020 140 14 44
	Technical Support Fax	08 590 05 594
Switzerland (Geneva) International Access Code: 00 Country Code: 41 City Code: 22	Web Address	Support.euro.dell.com
	E-mail Address	Tech_support_central_Europe@dell.com
	Technical Support – Home and Small Business	0844 811 411
	Technical Support – Corporate	0844 822 844
	Customer Service – Home and Small Business	0848 802 202
	Customer Service – Corporate	0848 821 721
	Fax	022 799 01 90
	Switchboard	022 799 01 01
Taiwan International Access Code: 002 Country Code: 886	Web Address	support.ap.dell.com
	E-mail Address	support.dell.com.cn/email
	Technical Support - OptiPlex, Latitude, Inspiron, Dimension, and Electronics and Accessories	toll-free: 0080 186 1011
	Technical Support - Servers and Storage	toll-free: 0080 160 1256
	Customer Service	toll-free: 0080 160 1250 (option 5)
	Transaction Sales	toll-free: 0080 165 1228
	Corporate Sales	toll-free: 0080 165 1227
Thailand International Access Code: 001 Country Code: 66	Web Address	Support.ap.dell.com
	Technical Support (OptiPlex, Latitude, and Dell Precision)	toll-free: 1800 0060 07
	Technical Support (PowerApp, PowerEdge, PowerConnect, and PowerVault)	toll-free: 1800 0600 09
	Customer Service	toll-free: 1800 006 007 (option 7)
	Corporate Sales	toll-free: 1800 006 009
	Transaction Sales	toll-free: 1800 006 006
Trinidad/Tobago	Web Address	www.dell.com/tt
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 1-888-799-5908
Turks and Caicos Islands	Web Address	www.dell.com/tc
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 1-877-441-4735

U.K.(Bracknell) International Access Code: 00 Country Code: 44 City Code: 1344	Web Address	upport.euro.dell.com
	E-mail Address	dell_direct_support@dell.com
	Customer Service Website	support.euro.dell.com/uk/en/ECare/form/home.asp
	Sales	
	Home and Small Business Sales	0870 907 4000
	Corporate/Public Sector Sales	01344 860 456
	Customer Service	
	Home and Small Business	0870 906 0010
	Corporate	01344 373 185
	Preferred Accounts (500-5000 employees)	0870 906 0010
	Global Accounts	01344 373 186
	Central Government	01344 373 196
	Local Government & Education	01344 373 199
	Health	01344 373 194
	Technical Support	
	Corporate/Preferred Accounts/PCA (1000+ employees)	0870 908 0500
	Other Dell Products	0870 353 0800
	General	
	Home and Small Business Fax	0870 907 4006
Uruguay	Web Address	www.dell.com/uy
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 000-413-598-2521
U.S.A. (Austin, Texas) International Access Code: 011 Country Code: 1	Automated Order-Status Service	toll-free: 1-800-433-9014
	AutoTech (portable and desktop computers)	toll-free: 1-800-247-9362
	Hardware and Warranty Support (Dell TV, Printers, and Projectors) for Relationship customers	toll-free: 1-877-459-7298
	Consumer (Home and Home Office) Support for Dell products	toll-free: 1-800-624-9896
	Customer Service	toll-free: 1-800-624-9897
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Financial Services Web Address	www.dellfinancialservices.com
	Financial Services (lease/loans)	toll-free: 1-877-577-3355
	Financial Services (Dell Preferred Accounts [DPA])	toll-free: 1-800-283-2210
	Business	
	Customer Service	toll-free: 1-800-624-9897
	Employee Purchase Program (EPP)	toll-free: 1-800-695-8133
	Customer s Support for printers, projectors, PDAs, and MP3 players	toll-free: 1-877-459-7298
	Public (government, education, and healthcare)	
	Customer Service and Support	toll-free: 1-800-456-3355
	Employee Purchase Program (EPP) Customers	toll-free: 1-800-695-8133
	Dell Sales	toll-free: 1-800-289-3355 or toll-free: 1-800-879-3355
	Dell Outlet Store (Dell refurbished computers)	toll-free: 1-888-798-7561
	Software and Peripherals Sales	toll-free: 1-800-671-3355
	Spare Parts Sales	toll-free: 1-800-357-3355
	Extended Service and Warranty Sales	toll-free: 1-800-247-4618
	Fax	toll-free: 1-800-727-8320
	Dell Services for the Deaf, Hard-of-Hearing, or Speech-Impaired	toll-free: 1-877-DELLTTY (1-877-335-5889)

U.S. Virgin Islands	Web Address	www.dell.com/vi
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	toll-free: 1-877-702-4360
Venezuela	Web Address	www.dell.com/ve
	E-mail Address	la-techsupport@dell.com
	Technical Support, Customer Service, Sales	0800-100-4752

1

Before Installing vFoglight

This chapter provides you with setup information and provides an initial overview of installing vFoglight or upgrading your vFoglight installation.

This chapter contains the following sections:

What is vFoglight? 24
Planning Your Installation or Upgrade 25
Hardware Requirements and Guidelines 28

What is vFoglight?

vFoglight is a powerful system and application performance management solution that detects problems and alerts information technology managers. vFoglight has the ability to dynamically create unique data schemas based on any data from any source. Rather than store data based on how it is collected by the agents, vFoglight organizes data based on your perception of the data. Using vFoglight, application and information technology managers can understand user service levels and notify stakeholders when those service levels are violated.

vFoglight helps you to:

- Focus on system and application availability and performance.
- Observe system capacity and efficiency.
- Identify and bridge gaps between business and information technology staff.
- Highlight historical information for planning and reporting.

Planning Your Installation or Upgrade

Before you install or upgrade vFoglight, you need to review the components that you are going to install or upgrade. Ensure that you have the necessary information, such as port numbers and server names, and the locations where you are going to install the components.

The following list summarizes the main steps involved in installing (or upgrading) and configuring vFoglight:

Step 1: Install the vFoglight Management Server (or upgrade your installation to version 3.0.1) and configure the Management Server. The Management Server is the data collection and processing server.

Step 2: Install the database (or upgrade it, if you are upgrading your Management Server installation to version 3.0.1) and configure the database. You can choose to use an embedded database or an external database. The instructions in this guide are for external database installations only.

Step 3: Install and configure the VMware cartridge. A cartridge contains one or more cartridge components, such as agents for deployment, communication capabilities, modifications to the way that data is transformed or handled, rules, reports, and views.

Note The VMware cartridge is installed automatically with vFoglight, but can be upgraded separately from the application.

Step 4: Install and configure Agents. Agents are deployed on VirtualCenters in your monitored environment and send data to the vFoglight Management Server. If your environment includes only one VirtualCenter, the installation of the VMware Infrastructure Agent is automated by the vFoglight installer. If your environment includes multiple VirtualCenters, the installation of the first VMware Infrastructure Agent will be automated, but the remaing agents must be installed manually.

Using Embedded Databases

vFoglight offers the option to use MySQL (5.0.27) as an embedded database. The lifecycle of the embedded database matches that of the vFoglight Management Server. If the Management Server is stopped or started, the embedded database is automatically stopped or started.

Licensing

This section provides information about licensing for vFoglight.

Providing a License File During Installation

You can install a license file during the installation process. See “Step 9: Add vFoglight License File” on page 52 in Installing vFoglight.

Managing a License After Installation

You can also manage licenses after installing vFoglight. There are three ways of providing a license file to the Management Server after installation.

Manual Process

- Move an existing license file into the <vfoglight_home>*license* folder.

Using the vFoglight Administration module

- Upload a license file using the vFoglight Administration module. See the *Administration and Configuration Guide* for instructions.

Using the Command Line

1. Start the vFoglight Management Server.
2. Ensure that JAVA_HOME is set.
3. If you have not already done so, extract the file *fglcmd.zip* in <vfoglight_home>*tools*.
4. Upload a license by navigating to <vfoglight_home>*tools* and entering the following commands:

   ```
   fglcmd -usr <username> -pwd <password> -cmd license:import -f <license-file>
   fglcmd -usr <username> -pwd <password> -cmd license:list
   fglcmd -usr <username> -pwd <password> -cmd license:remove -serial <serial>
   ```

   Note The commands listed above assume that you are using a default port=8080 and a localhost. If you are not running with these default values, use the following options to indicate server and port:

   ```
   -prt <xx> -srv <servername>
   ```

Hardware Requirements and Guidelines

The hardware requirements to run vFoglight can vary widely, based on a number of factors, including:

- The number and type of agents that are being used
- The persistence and data-rollup policies
- Agent configuration settings

You should not consider doing a production implementation without conducting a proper scoping and sizing exercise with a qualified Vizioncore representative. You can arrange for a sizing analysis by contacting your Vizioncore Sales Representative. At a minimum, you will be required to provide hardware matching the specifications below.

Installation Recommendations

Running a vFoglight server requires:

- The vFoglight Management Server
- The vFoglight database repository

While these components can be installed on a single tier or on multiple tiers, it is critical to realize that the management server and database repository will require separately dedicated resources to support them. In order to help facilitate sizing, the resources required to support each component are addressed separately. They can either be summed to support a single-tier installation, or treated independently as the requirements for each server in a two-tier installation.

Hardware Requirements

For the current single- and multi-tier hardware requirements, consult the *vFoglight System Requirements and Platform Support Guide*.

2

Installing vFoglight

The vFoglight 3.0.1 installer allows you either to install a new instance of the vFoglight Management Server or to upgrade an existing installation of a vFoglight 3.x vFoglight Service Manager.

This chapter contains the following sections:

Preparing to Install....30
Installing a New Version of the vFoglight Management Server....30
Installing the vFoglight Management Server - Standard Install Option....31
Installing the vFoglight Management Server - Custom Install Option....44
Upgrading the vFoglight Management Server....61
Installed Directories....61
vFoglight Settings....63
Uninstalling vFoglight....67

Note The vFoglight Management Server should be installed on a dedicated physical machine.

Preparing to Install

You will need the following to install vFoglight:

- A machine to host the vFoglight Management Server. The vFoglight Service Manager should run on a dedicated machine because it must process and store large volumes of data.
- Administrator or root access to all machines requiring a vFoglight agent.
- An administrator password for vFoglight. The user name *vfoglight* and the default password for this account can initially be used to log in to the consoles and use command-line options with administrator privileges. Vizioncore recommends that you change the default password for this account.

Installing a New Version of the vFoglight Management Server

Once all system requirements are in place you are ready to install the vFoglight Management Server. The installer prompts you to input data, and provides you with progress feedback during the installation process.

The vFoglight installer offers two installation options:

- **Standard** - This option accepts all of the installer defaults, and installs an embedded SQL database only. To use this option, follow the instructions in “Installing the vFoglight Management Server - Standard Install Option” on page 31.
- **Custom** - This option allows you to modify the installer defaults, and to choose an external database type. To use this option, following the instructions in “Installing the vFoglight Management Server - Custom Install Option” on page 44.

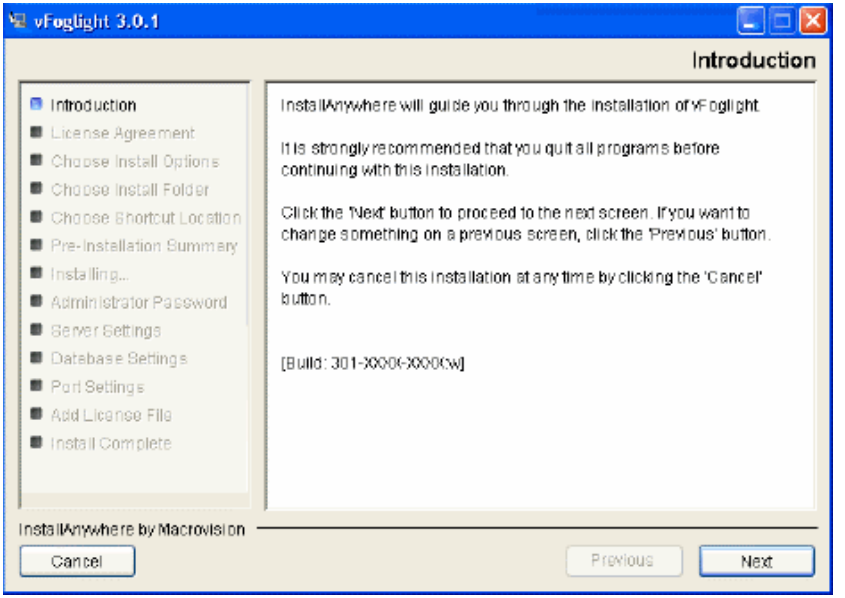
The vFoglight installation process consists of the same basic steps for all platforms. For specific platform customizations, see “Installed Directories” on page 61.

Installing the vFoglight Management Server - Standard Install Option

Start the installation process by initiating the executable included on the vFoglight install media. Each installation screen includes a **Previous** button, allowing you to go back and adjust the information you have entered.

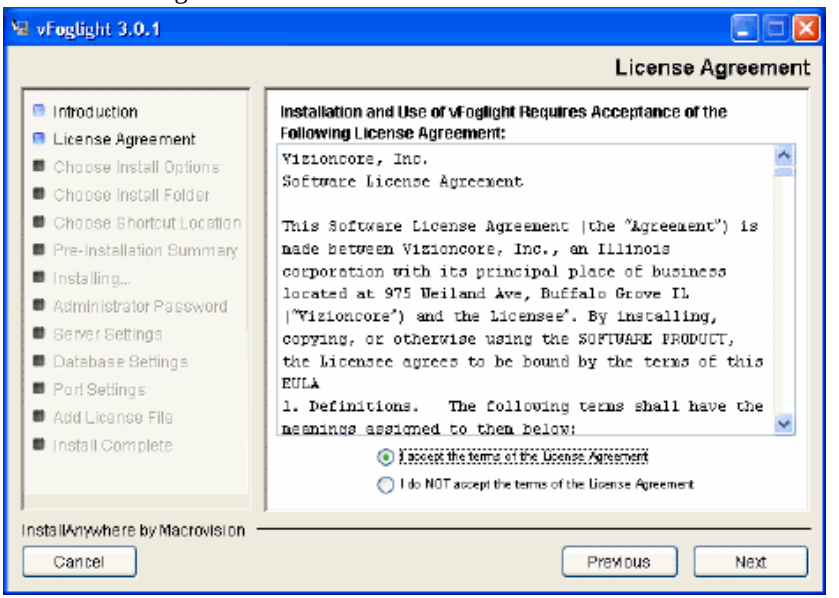
Step 1: Introduction

The Introduction screen provides an overview of the mechanics of the installation interface. Click **Next** after reading the contents of this screen.


vFoglight 3.0.1
Introduction
Introduction
License Agreement
Choose Install Options
Choose Install Folder
Choose Shortcut Location
Pre-Installation Summary
Installing...
Administrator Password
Server Settings
Database Settings
Port Settings
Add License File
Install Complete
InstallAnywhere will guide you through the installation of vFoglight.
It is strongly recommended that you quit all programs before continuing with this installation.
Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button.
You may cancel this installation at any time by clicking the 'Cancel' button.
[Build: 301-XXXX-XXXXW]
InstallAnywhere by Macrovision
Cancel
Previous
Next

Step 2: License Agreement

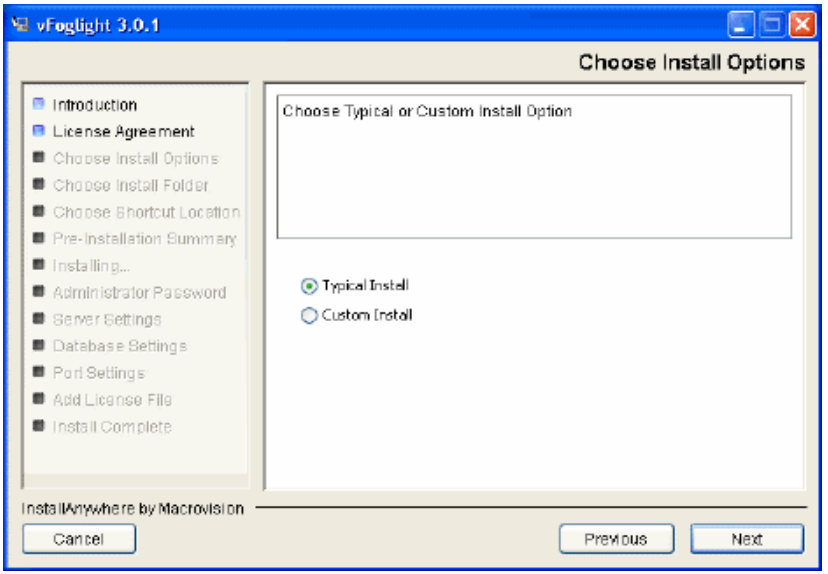
1 Read through the License Agreement statement, and accept or decline the terms of the license agreement.


vFoglight 3.0.1
License Agreement
Introduction
License Agreement
Choose Install Options
Choose Install Folder
Choose Shortcut Location
Pre-Installation Summary
Installing...
Administrator Password
Server Settings
Database Settings
Port Settings
Add License File
Install Complete
Installation and Use of vFoglight Requires Acceptance of the Following License Agreement:
Vizioncore, Inc.
Software License Agreement
This Software License Agreement (the "Agreement") is made between Vizioncore, Inc., an Illinois corporation with its principal place of business located at 975 Weiland Ave, Buffalo Grove IL ("Vizioncore") and the Licensee". By installing, copying, or otherwise using the SOFTWARE PRODUCT, the Licensee agrees to be bound by the terms of this EULA
1. Definitions. The following terms shall have the meanings assigned to them below:
I accept the terms of the License Agreement
I do NOT accept the terms of the License Agreement
InstallAnywhere by Macrovision
Cancel
Previous
Next

2 If you selected **I accept the terms of the License Agreement**, click **Next**.

Step 3: Select Installation

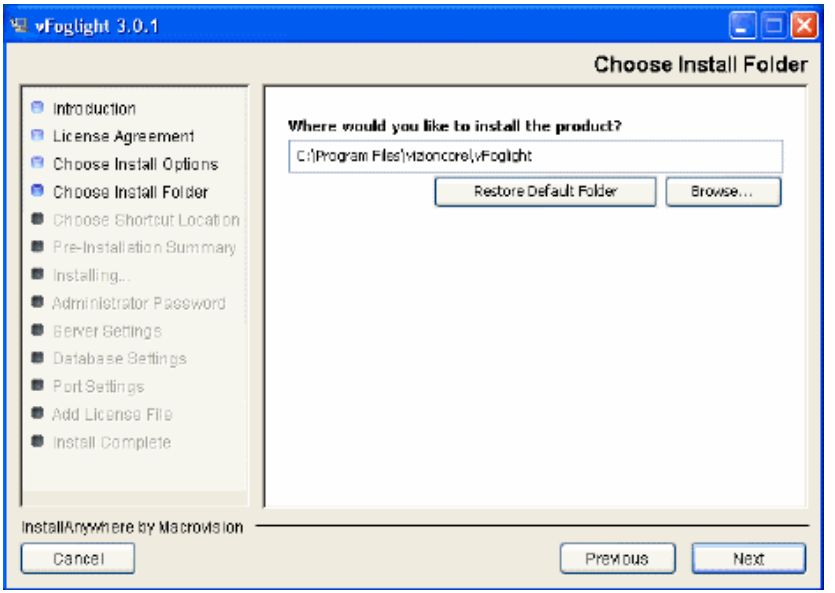
1 Choose the **Typical Install** option.



2 Click **Next**.

Step 4: Installing vFoglight 3.0.1

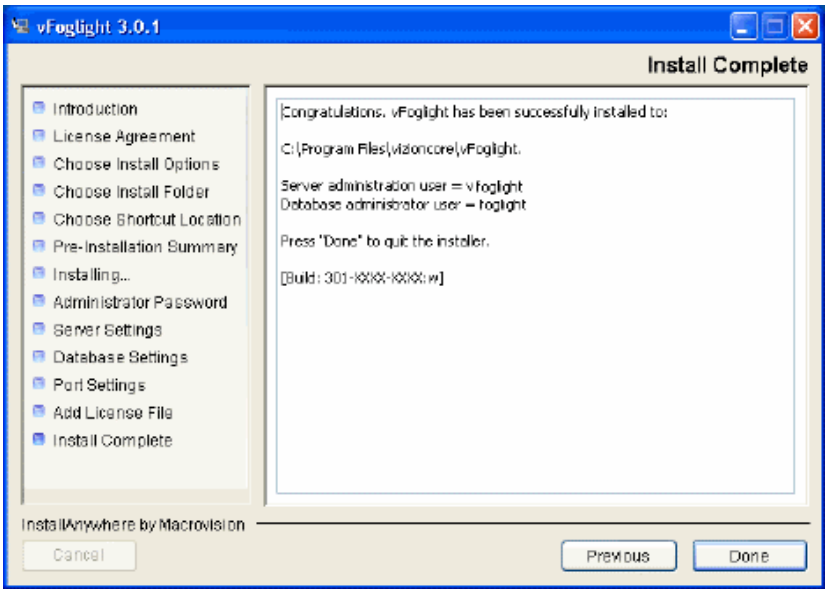
1 Choose the location where you want to install vFoglight. You can accept the default location *C:\Vizioncore\vFoglight* or click the **Browse** button to navigate to another location.



2 Click **Next.**

.Step 5: Install Complete

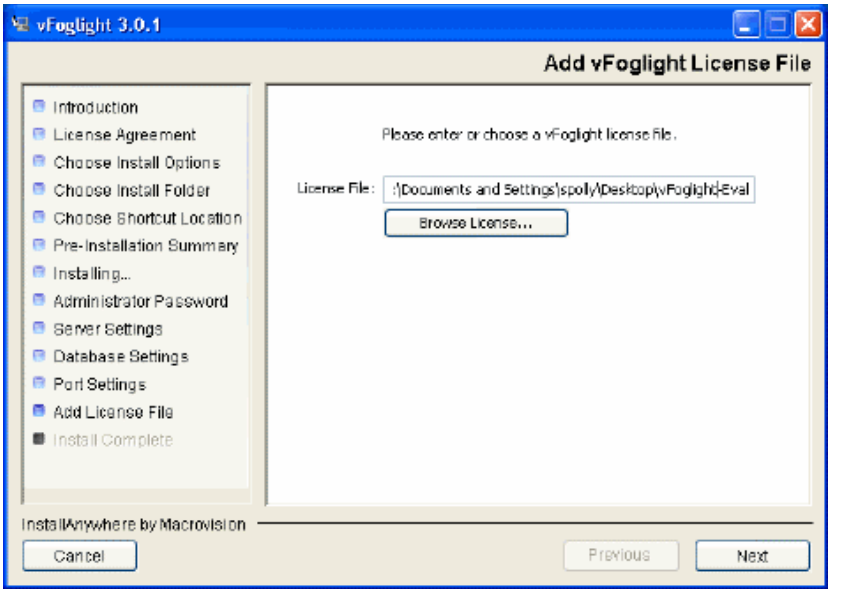
1 Click **Done** to complete the installation process.



Step 6: Add vFoglight License File

1. Specify the path to the vFoglight license file in the **License File** field, or browse to a license file by clicking **Browse License**.
   Alternatively, you can provide a license file to the vFoglight Management Server after the installation is complete. To do so, leave the **License File** field blank and proceed to step 2.
2. Click **Next**.

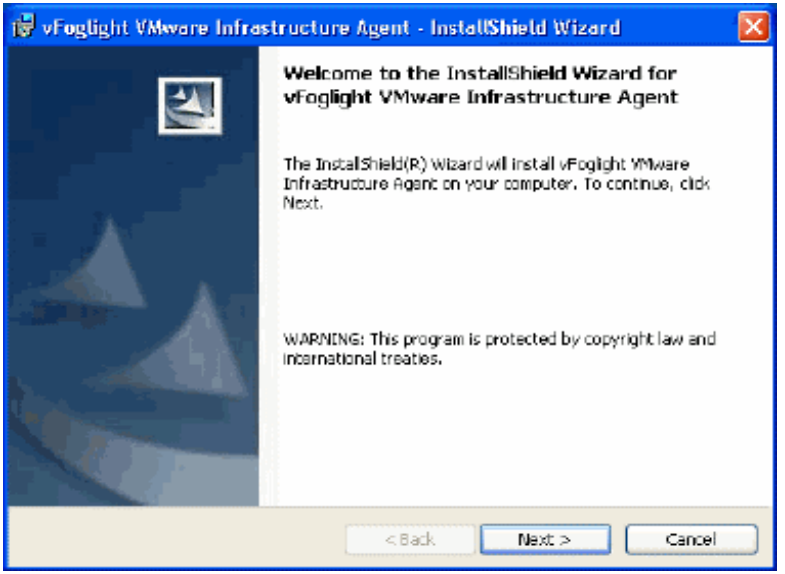
   Note If you left the **License File** field blank, an Invalid License dialog appears. Click **Skip** in this dialog if you would like to add a license file after installing vFoglight.



The Typical Installation prodedure now takes you through the installation of the vFoglight VMware Infrastructure Agent components.

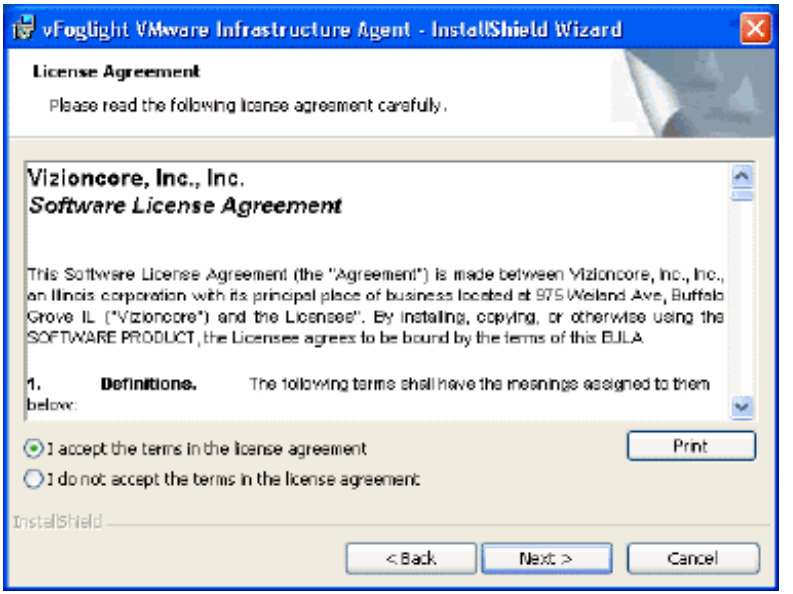
Step 7: InstallShield Wizard Welcome Screen

The Welcome screen for the VMware Infrastructure Agent InstallShield Wizard explains the purpose of the InstallShield Wizard. Click **Next** after reading the contents of this screen.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Welcome to the InstallShield Wizard for vFoglight VMware Infrastructure Agent
The InstallShield(R) Wizard will install vFoglight VMware Infrastructure Agent on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Step 8: License Agreement

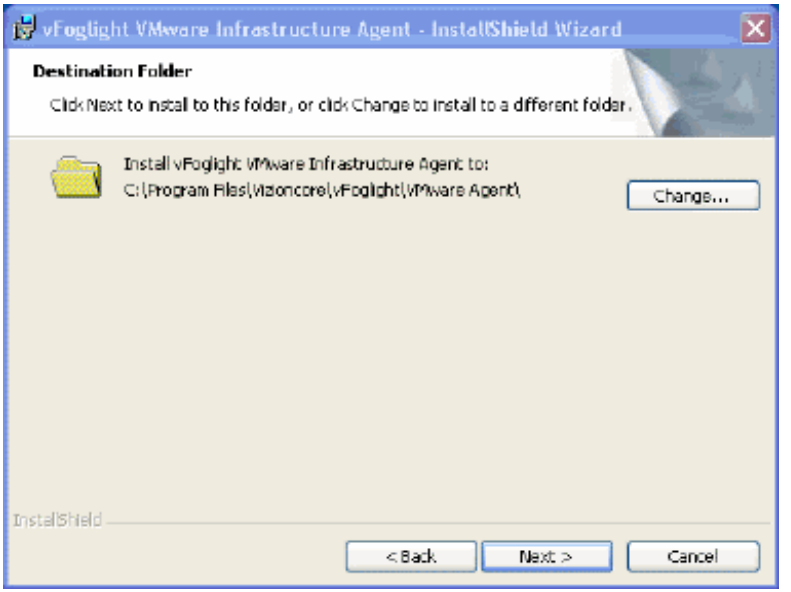
1 Read through the VMware Infrastructure Agent License Agreement statement, and accept or decline the terms.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Vizioncore, Inc., Inc.
Software License Agreement
This Software License Agreement (the "Agreement") is made between Vizioncore, Inc., Inc., an Illinois corporation with its principal place of business located at 975 Weiland Ave, Buffalo Grove IL ("Vizioncore") and the Licensee". By installing, copying, or otherwise using the SOFTWARE PRODUCT, the Licensee agrees to be bound by the terms of this EULA
1. Definitions. The following terms shall have the meanings assigned to them below:
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

2 If you selected **I accept the terms in the License Agreement**, click **Next**.

Step 9: Destination Folder

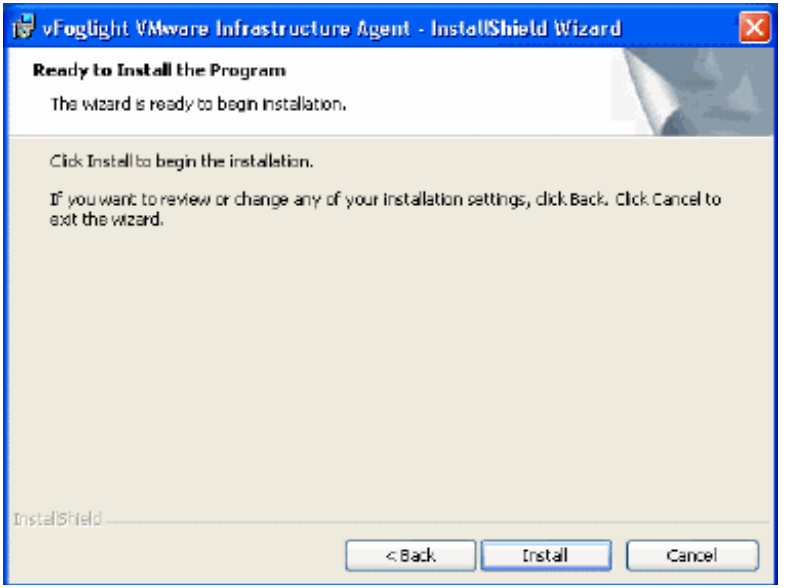
1 Choose the location where you want to install the VMware Infrastructure Agent components. You can accept the default location *C:\Program Files\Vizioncore\vFoglight\Vmware Agent* or click on the **Change** button to navigate to another location.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install vFoglight VMware Infrastructure Agent to:
C:\Program Files\Vizioncore\vFoglight\VMware Agent\
Change...
InstallShield
< Back
Next >
Cancel

2 Click **Next**.

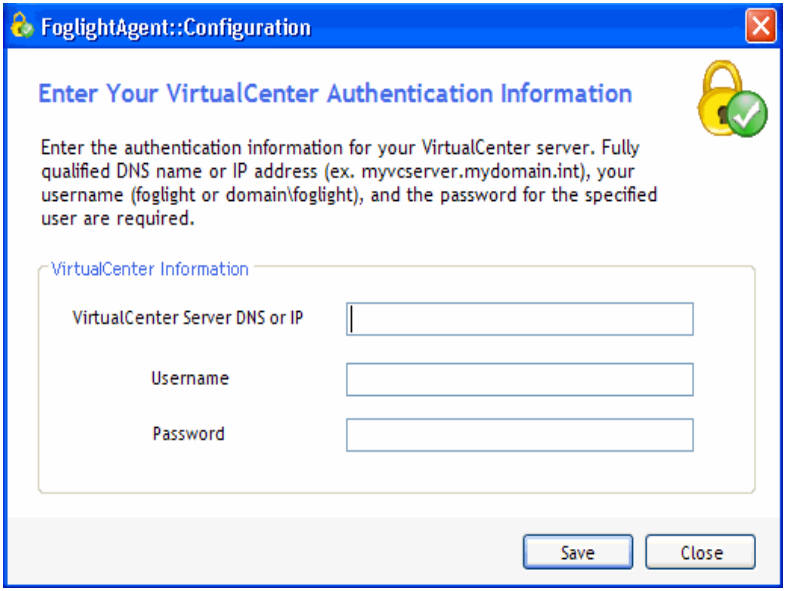
Step 10: VMware Infrastructure Agent Install Screen

The Agent Install screen is displayed. Click **Install**.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Step 11: VirtualCenter Authentication

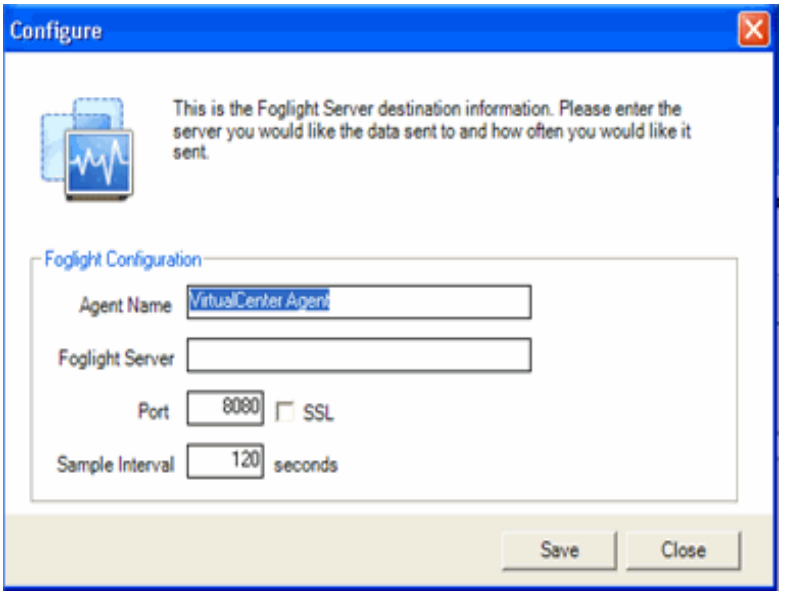
1. On the VirtualCenter Authentication Information screen, enter the VirtualCenter Server name or IP Address.
2. Enter VirtualCenter Server Username and Password credentials that will provide you with access to the VMware Virtual Infrastructure Client.


FoglightAgent::Configuration
Enter Your VirtualCenter Authentication Information
Enter the authentication information for your VirtualCenter server. Fully qualified DNS name or IP address (ex. myvcserver.mydomain.int), your username (foglight or domain\foglight), and the password for the specified user are required.
VirtualCenter Information
VirtualCenter Server DNS or IP
Username
Password
Save
Close

3. Click Save to have your entries validated.
4. On the **Credentials Entered are Valid!** dialog, click **OK**.

Step 12: vFoglight Server Destination

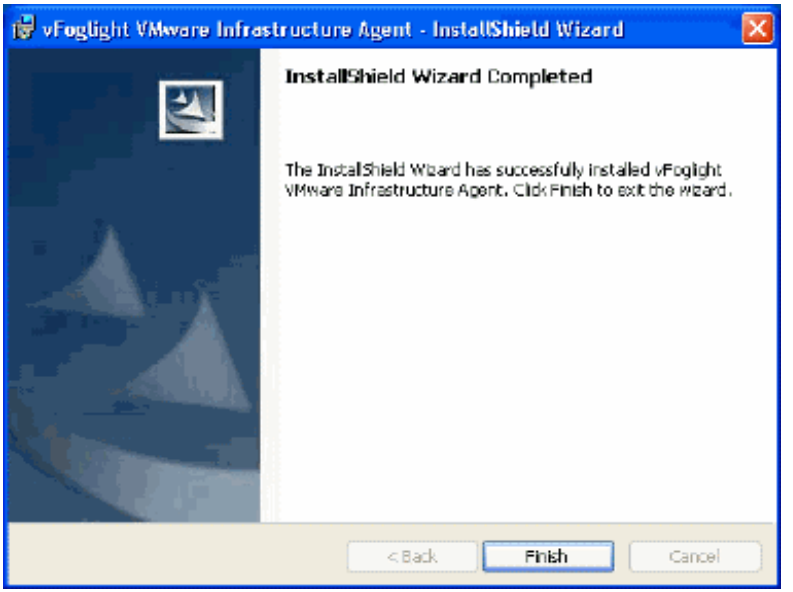
1. On the vFoglight Server Destination Information screen, enter the agent name as you want it to be displayed in vFoglight.
2. Enter the vFoglight Server name or IP address. This is the name or IP of the vFoglight Management Server.
3. Enter the port number of the port that the vFoglight Server uses for HTTP traffic. The default is 8080.
4. If this port requires SSL, check the SSL check box.
5. Enter a Sample Interval time in seconds. If you enter a lower interval, you could encounter performance problems while gaining little or nothing in terms of the quality of your data. If you enter an interval that is too high, you may not receive data often enough for it to be of much value.



6. Click **Save** to have your entries validated.

Step 13: InstallShield Wizard Completed

Click Finished to complete the VMware Infrastructure Agent components installation.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed vFoglight VMware Infrastructure Agent. Click Finish to exit the wizard.
< Back
Finish
Cancel

The services of the agent components start automatically after the installation is complete.

Next Steps

If you did not install a license in Step 6, follow the instructions in “Managing a License After Installation” on page 27 to provide a license file to the vFoglight Management Server after installation.

If you need to import and initialize your database, refer to the procedures in “Migrating Data from an Existing Database” on page 70.

Start the vFoglight Management Server by following the instructions in “Starting and Stopping the vFoglight Management Server” on page 71.

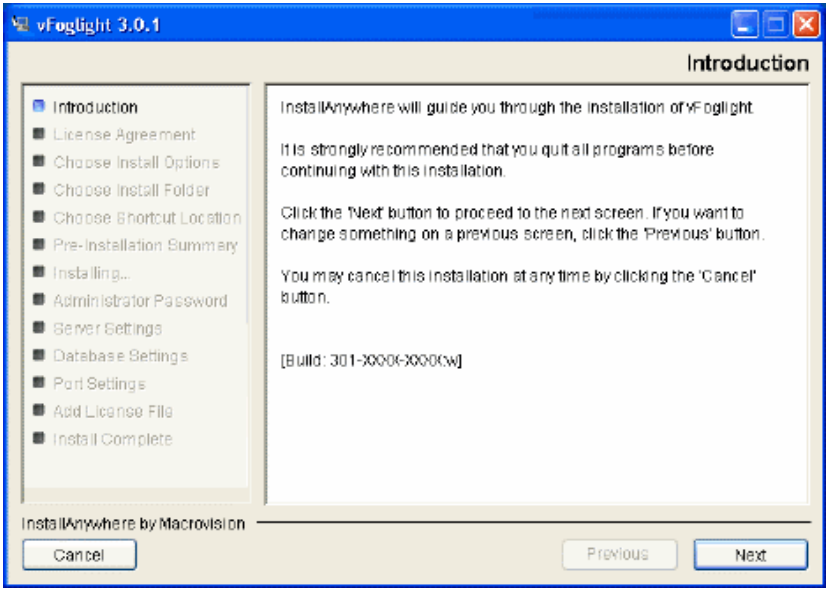
To log into the vFoglight Console, refer to “Logging in to the vFoglight Browser Interface” on page 73.

Installing the vFoglight Management Server - Custom Install Option

Start the installation process by initiating the executable included on the vFoglight install media. Each installation screen includes a **Previous** button, allowing you to go back and adjust the information you have entered.

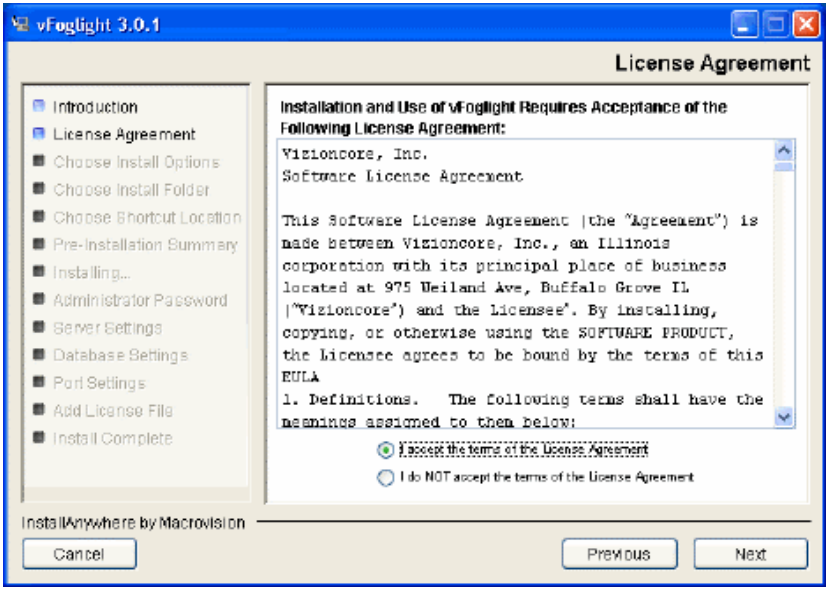
Step 1: Introduction

The Introduction screen provides an overview of the mechanics of the installation interface. Click **Next** after reading the contents of this screen.


vFoglight 3.0.1
Introduction
Introduction
License Agreement
Choose Install Options
Choose Install Folder
Choose Shortcut Location
Pre-Installation Summary
Installing...
Administrator Password
Server Settings
Database Settings
Port Settings
Add License File
Install Complete
InstallAnywhere will guide you through the installation of vFoglight.
It is strongly recommended that you quit all programs before continuing with this installation.
Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button.
You may cancel this installation at any time by clicking the 'Cancel' button.
[Build: 301-XXXX-XXXXX]
InstallAnywhere by Macrovision
Cancel
Previous
Next

Step 2: License Agreement

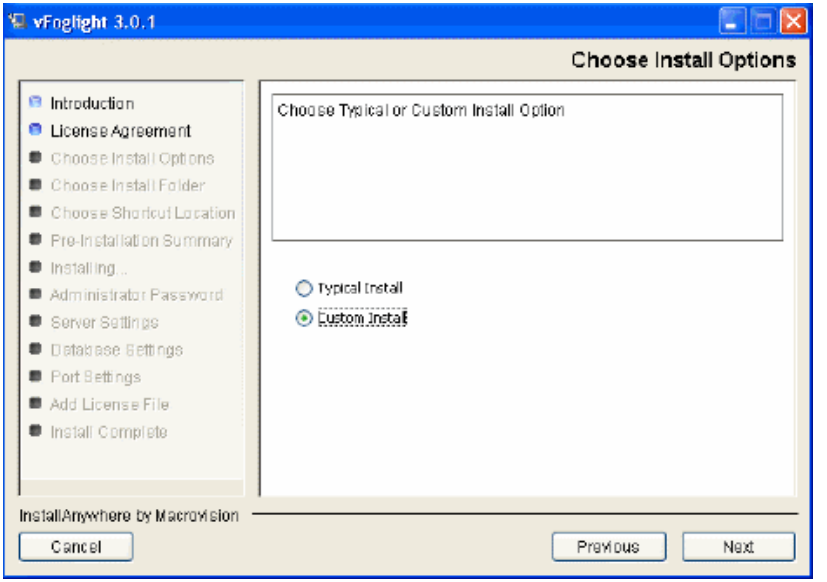
1 Read through the License Agreement statement, and accept or decline the terms of the license agreement.


vFoglight 3.0.1
License Agreement
Introduction
License Agreement
Choose Install Options
Choose Install Folder
Choose Shortcut Location
Pre-Installation Summary
Installing...
Administrator Password
Server Settings
Database Settings
Port Settings
Add License File
Install Complete
Installation and Use of vFoglight Requires Acceptance of the Following License Agreement:
Vizioncore, Inc.
Software License Agreement
This Software License Agreement (the "Agreement") is made between Vizioncore, Inc., an Illinois corporation with its principal place of business located at 975 Weiland Ave, Buffalo Grove IL ("Vizioncore") and the Licensee". By installing, copying, or otherwise using the SOFTWARE PRODUCT, the Licensee agrees to be bound by the terms of this EULA
1. Definitions. The following terms shall have the meanings assigned to them below:
I accept the terms of the License Agreement
I do NOT accept the terms of the License Agreement
InstallAnywhere by Macrovision
Cancel
Previous
Next

2 If you selected **I accept the terms of the License Agreement**, click **Next**.

Step 3: Select Installation

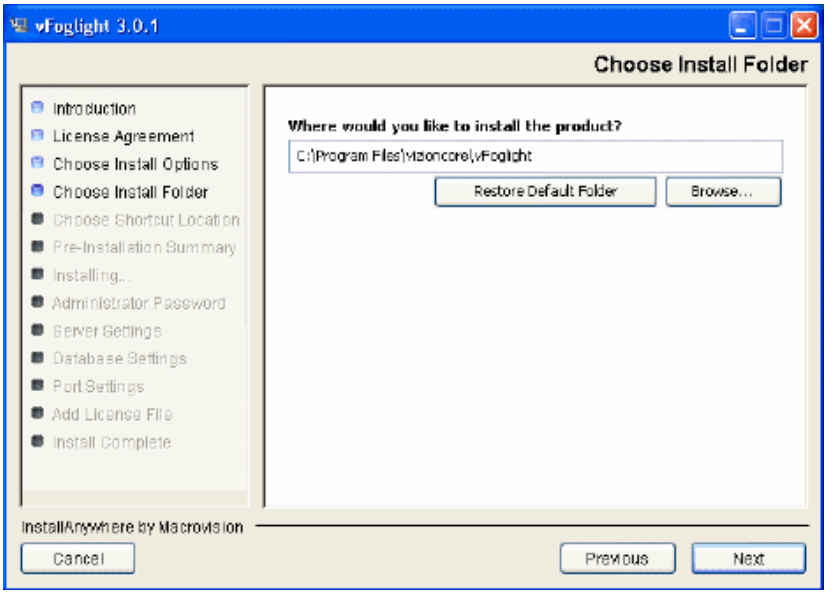
1 Choose the **Custom Install** option.



2 Click **Next**.

Step 4: Choose Install Folder

1 Choose the location where you want to install vFoglight. You can accept the default location *C:\Vizioncore\vFoglight* or click the **Browse** button to navigate to another location.



2 Click **Next**.

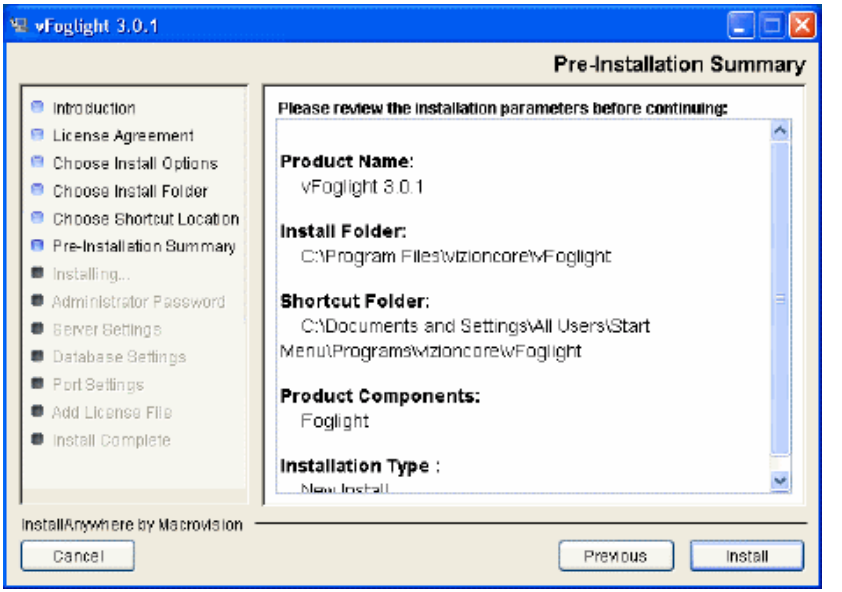
Step 5: Pre-Installation Summary

1 Review the installation information.

2 If you are satisfied with the parameters of your installation, click **Install**.

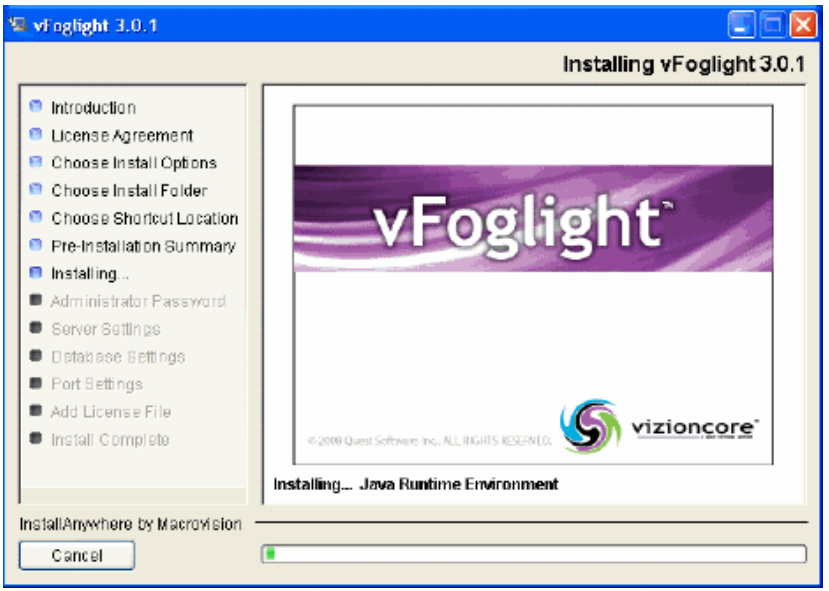
To make changes to the installation parameters click **Previous**.

Note As shown below, the installation type (New Install) is displayed on this screen. If you wanted to upgrade an existing installation of the vFoglight Management Server to version v.3.0.1, click **Previous** until you return to the Choose Install Folder screen.



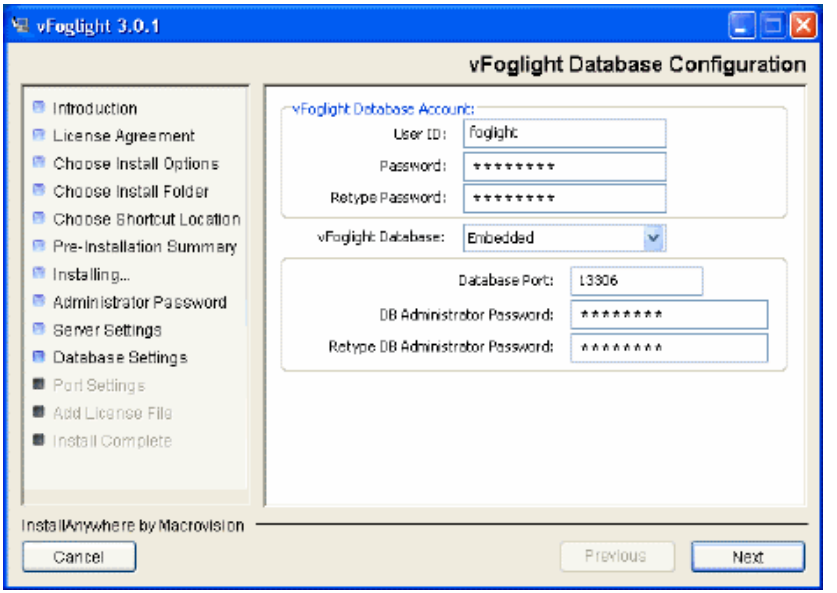
Step 6: Installing vFoglight 3.0.1

vFoglight installs files into the specified directory.



Step 7: vFoglight Database Configuration

1. In the vFoglight Database Account **User ID** field accept the default user ID (*foglight*) or enter an alternate one. This is the name for the vFoglight user that you are creating. The vFoglight uses this account to store data in the database.
2. In the vFoglight Database Account **Password** field accept the default password (*foglight*) or enter an alternate one.
3. In the vFoglight Database Account **Retype Password** field, accept the default *(foglight)* or, if you have provided an alternate password , retype the password for verification.
4. From the **vFoglight Database** drop-down list, choose **Embedded**.



Embedded Database Installation

1. Accept the default port (13306) or enter an alternate **Database Port**.
2. In the **DB Administrator Password** field, accept the default password provided (*foglight*) or enter an alternate one.
3. In the **Retype DB Administrator Password** field, accept the default *(foglight)* or, if you have provided an alternate password , retype the password for verification.
4. Click **Next**. A progress box appears as the embedded database is installed.

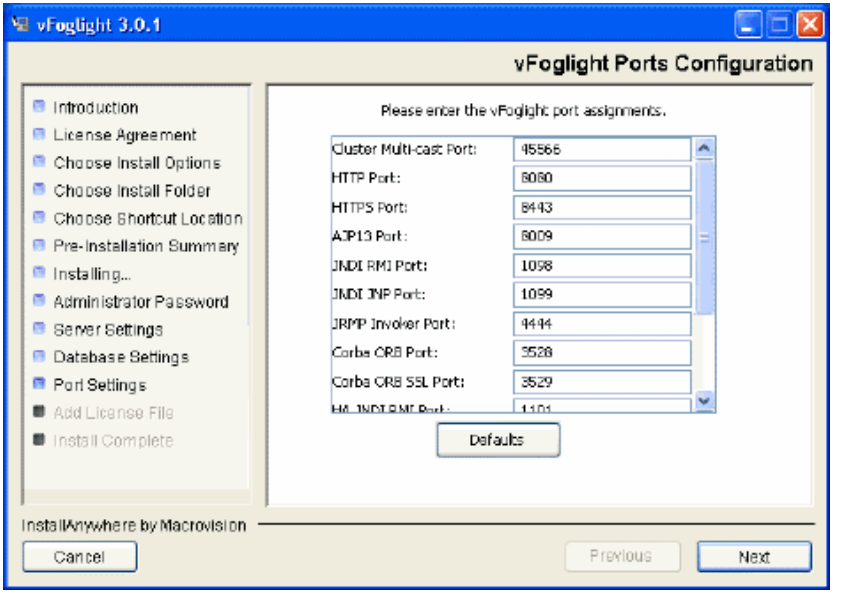
Step 8: vFoglight Ports Configuration

1. Configure the server ports. The **vFoglight Ports Configuration** screen displays default ports which you can assign.

   If you want to revert to the default values, click **Defaults**.

2. Click **Next**.

   Note If there are any port assignment conflicts, an error message dialog box appears. You can either click **Review Ports** if you want to return to the vFoglight Ports Configuration screen to configure the conflicting port(s), or choose **Ignore and Continue** to continue with the installation without resolving the port conflicts. Choose one of these options to continue.

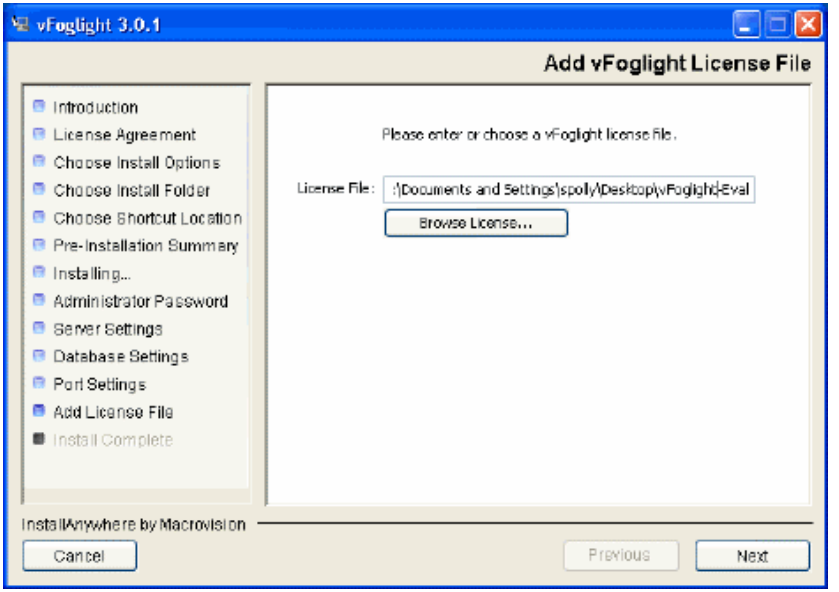


Step 9: Add vFoglight License File

1 Specify the path to the vFoglight license file in the **License File** field, or browse to a license file by clicking **Browse License**.
Alternatively, you can provide a license file to the vFoglight Management Server after the installation is complete. To do so, leave the **License File** field blank and proceed to step 2.

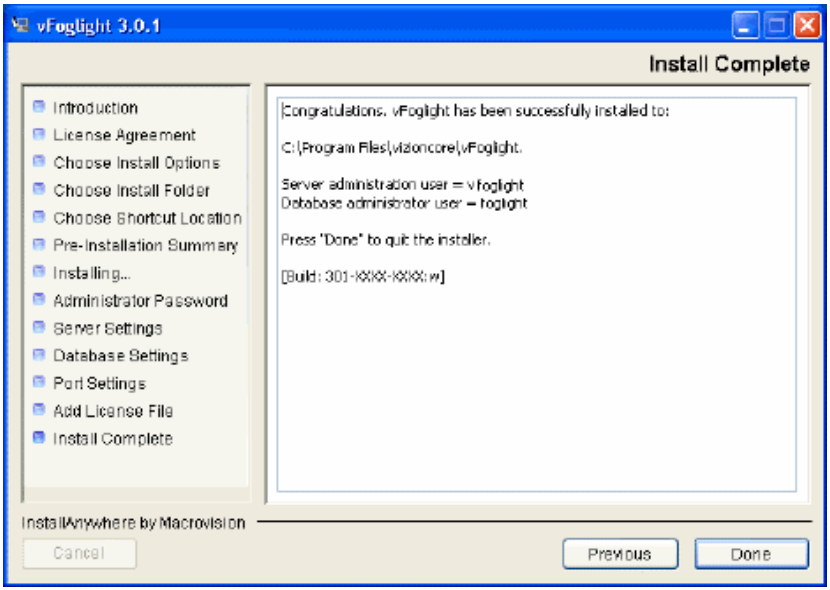
2 Click **Next**.

Note If you left the **License File** field blank, an Invalid License dialog appears. Click **Skip** in this dialog if you would like to add a license file after installing vFoglight.



Step 10: Install Complete

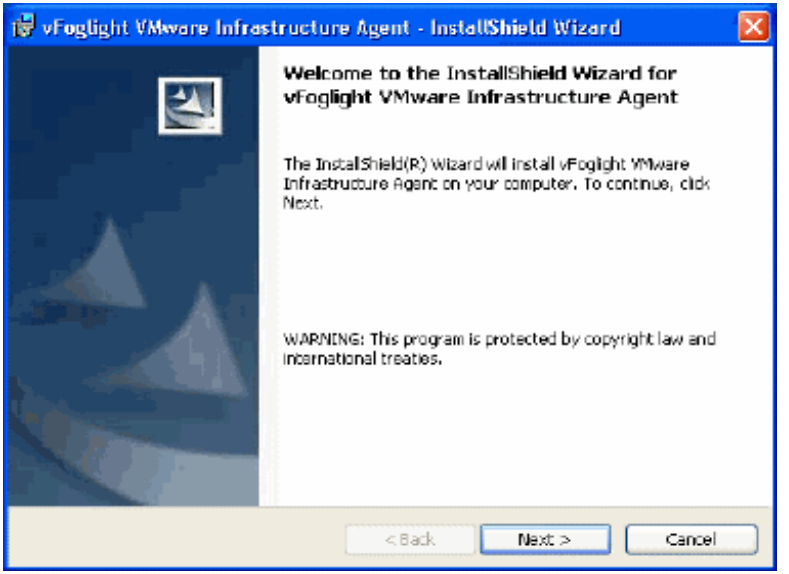
Click **Next** to complete the installation process.



The Custom Installation prodedure now takes you through the installation of the vFoglight VMware Infrastructure Agent components.

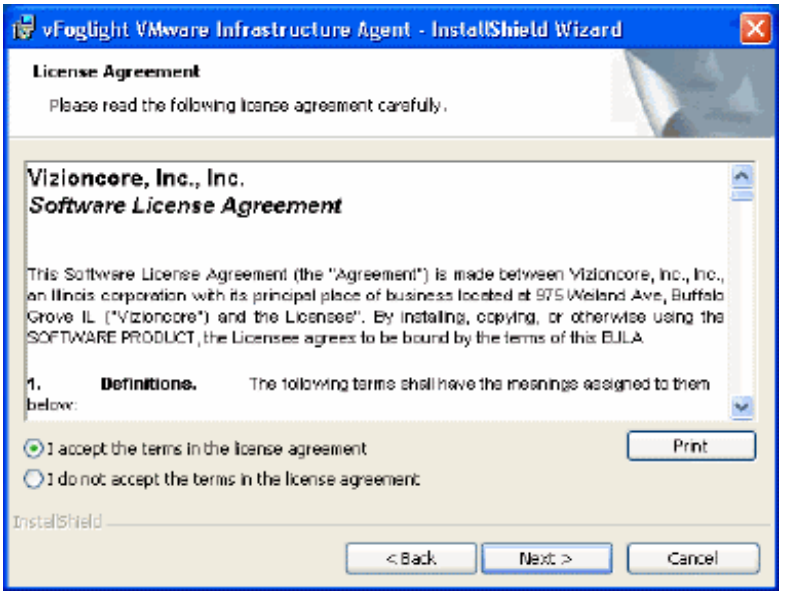
Step 11: InstallShield Wizard Welcome Screen

The Welcome screen for the VMware Infrastructure Agent InstallShield Wizard explains the purpose of the InstallShield Wizard. Click **Next** after reading the contents of this screen.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Welcome to the InstallShield Wizard for vFoglight VMware Infrastructure Agent
The InstallShield(R) Wizard will install vFoglight VMware Infrastructure Agent on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Step 12: License Agreement

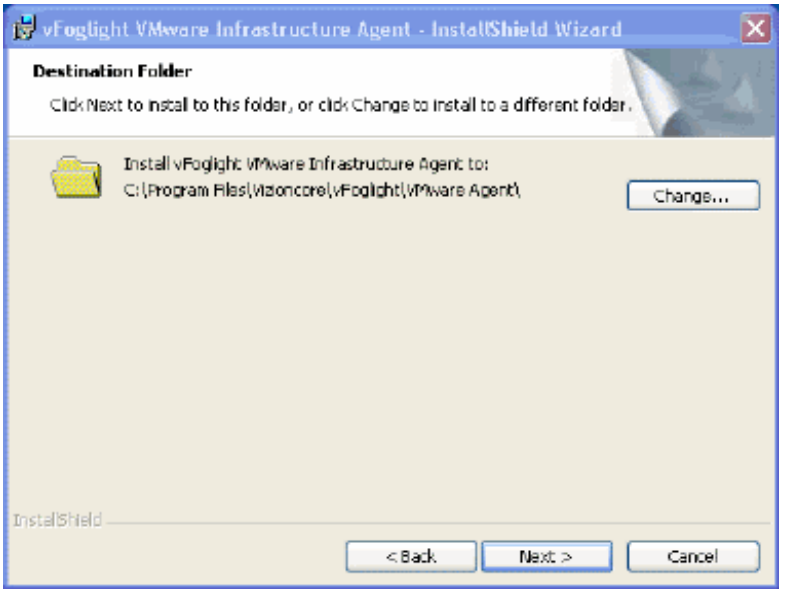
1 Read through the VMware Infrastructure Agent License Agreement statement, and accept or decline the terms.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Vizioncore, Inc., Inc.
Software License Agreement
This Software License Agreement (the "Agreement") is made between Vizioncore, Inc., Inc., an Illinois corporation with its principal place of business located at 975 Weiland Ave, Buffalo Grove IL ("Vizioncore") and the Licensee". By installing, copying, or otherwise using the SOFTWARE PRODUCT, the Licensee agrees to be bound by the terms of this EULA
1. Definitions. The following terms shall have the meanings assigned to them below:
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

2 If you selected **I accept the terms in the License Agreement**, click **Next**.

Step 13: Destination Folder

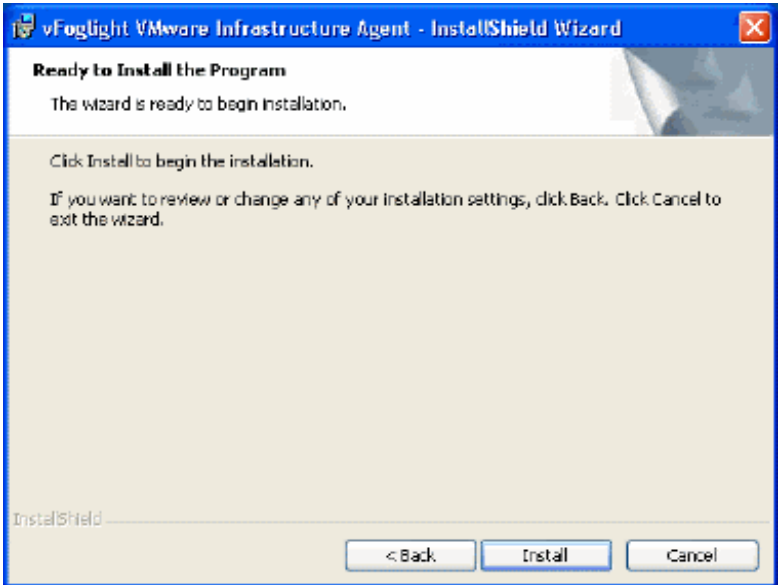
1 Choose the location where you want to install the VMware Infrastructure Agent components. You can accept the default location *C:\Program Files\Vizioncore\vFoglight\Vmware Agent* or click on the **Change** button to navigate to another location.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Destination Folder
Click Next to install to this folder, or click Change to install to a different folder.
Install vFoglight VMware Infrastructure Agent to:
C:\Program Files\Vizioncore\vFoglight\VMware Agent\
Change...
InstallShield
< Back
Next >
Cancel

2 Click **Next**.

Step 14: VMware Infrastructure Agent Install Screen

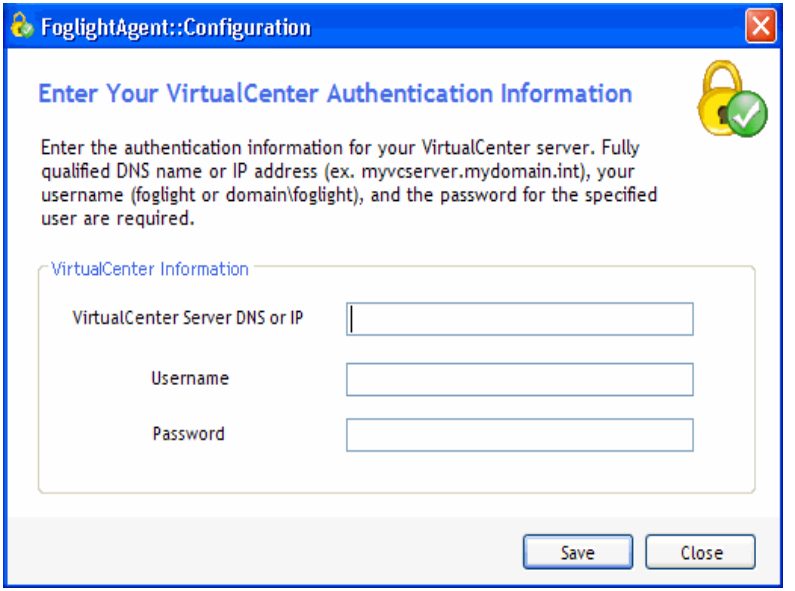
The Agent Install screen is displayed. Click **Install**.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Step 15: VirtualCenter Authentication

1 On the VirtualCenter Authentication Information screen, enter the VirtualCenter Server name or IP Address.

2 Enter VirtualCenter Server Username and Password credentials that will provide you with access to the VMware Virtual Infrastructure Client.

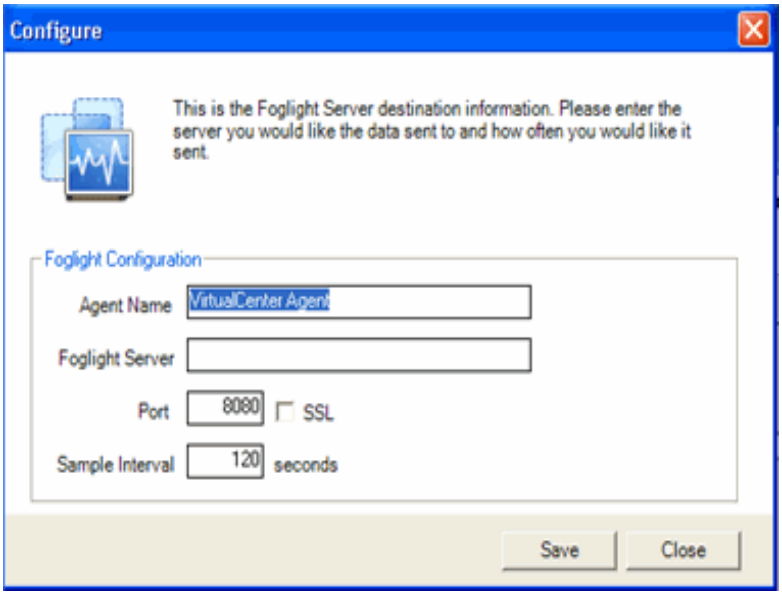

FoglightAgent::Configuration
Enter Your VirtualCenter Authentication Information
Enter the authentication information for your VirtualCenter server. Fully qualified DNS name or IP address (ex. myvcserver.mydomain.int), your username (foglight or domain\foglight), and the password for the specified user are required.
VirtualCenter Information
VirtualCenter Server DNS or IP
Username
Password
Save
Close

3 Click Save to have your entries validated.

4 On the **Credentials Entered are Valid!** dialog, click **OK**.

Step 16: vFoglightServer Destination

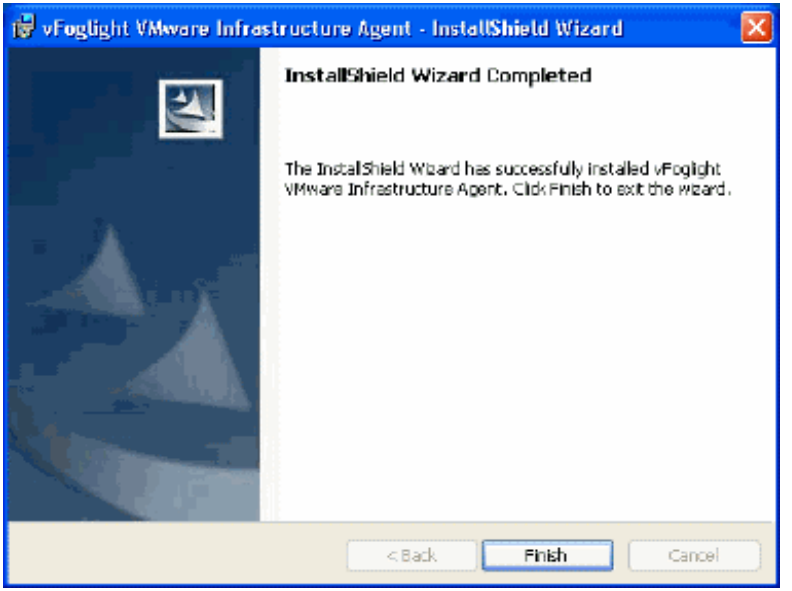
1. On the vFoglight Server Destination Information screen, enter the agent name as you want it to be displayed in vFoglight.
2. Enter the vFoglight Server name or IP address. This is the name or IP of the vFoglight Management Server.
3. Enter the port number of the port that the vFoglight Server uses for HTTP traffic. The default is 8080.
4. If this port requires SSL, check the SSL check box.
5. Enter a Sample Interval time in seconds. If you enter a lower interval, you could encounter performance problems while gaining little or nothing in terms of the quality of your data. If you enter an interval that is too high, you may not receive data often enough for it to be of much value.



6. Click **Save** to have your entries validated.

Step 17: InstallShield Wizard Completed

Click Finished to complete the VMware Infrastructure Agent components installation process.


vFoglight VMware Infrastructure Agent - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed vFoglight VMware Infrastructure Agent. Click Finish to exit the wizard.
< Back
Finish
Cancel

The services of the agent components start automatically after the installation is complete.

Next Steps

If you did not install a license in Step 9: Add vFoglight License File, follow the instructions in “Managing a License After Installation” on page 27 to provide a license file to the vFoglight Management Server after installation.

If you need to import and initialize your database, refer to the procedures in “Migrating Data from an Existing Database” on page 70.

Start the vFoglight Management Server by following the instructions in “Starting and Stopping the vFoglight Management Server” on page 71.

To log into the vFoglight Console, refer to “Logging in to the vFoglight Browser Interface” on page 73.

Upgrading the vFoglight Management Server

Please consult the *vFoglight 3.0.1 Upgrade Field Guide* for detailed upgrade instructions.

Installed Directories

The following table describes the directories that are installed under your target installation folder. They may vary, depending on the product features that you select and the components installed for your platform.

Directory	Contents
bin	vFoglight executables for running the server and utilities.
client	Files used by client programs (such as the command line client) for remote access to vFoglight.
config	Configuration files and subdirectories. The files in the *config* directory contain settings that are most likely to require editing. Files at the next level are less likely to need changing. Files at the lowest level contain settings that are unlikely to need changing except in special circumstances.
docs	HTML and PDF versions of the product documentation.
dtd	Descriptors for configuration files that can be imported into vFoglight (for example, by installing a cartridge).
jre	Version of the JRE (1.5.0_11-b03) used by vFoglight.
lib	The vFoglight JARs.
logs	Default location of the log files generated by vFoglight when it runs. Generated at runtime.

Directory	Contents
mysql	The current embedded database version is 5.0.27. If the embedded database is selected during installation, then the database is created, populated, and used for vFoglight runtime. To startup the embedded database individually without running vFoglight, use these parameters `[run|shutdown]Db.[bat|sh]` in <*install-dir*>*/bin*
perl	Libraries needed to interpret the PERL scripts, version 5.8.8.
scripts	Supported and unsupported utility scripts to extend the scripting engine. *scripts/sql* contains SQL scripts to drop, create-schema or create/populate the database.
server	JARs and data files used by a particular vFoglight server variant (such as default).
tools	Various utilities such as the *foglight-federation-support.sar* file.

Additional directories created after the vFoglight Management Server is started:

Directory	Contents
cartridge	Installed cartridge files in their original form.
support	Where support bundled archive information is stored.
tmp\cartridge.exploded	Unzipped contents of installed cartridges. Unizpped at runtime.

vFoglight Settings

vFoglight can be run with the default settings. However, you can edit these settings if you need to change runtime parameters such as ports used by the vFoglight Service Manager. To do so, you can edit the file *<vfoglight_home>/config/foglight.config*, which contains central settings.

Editing the *foglight.config* File

The f*oglight.config* file contains parameters for port settings, virtual memory, command line options, and server federation. You can edit the file using a text editor. Values within quotation marks can be edited.

Setting Memory Parameters for the Server

If you are running vFoglight Management Server by running *fms.exe*, you can configure the Java Virtual Machine's minimum and maximum parameters for the server in the *<vfoglight_home>/config/foglight.config* file.

If you are starting vFoglight using the `run.[bat|sh]` command, the JVM heap memory parameters set in the *<vfoglight_home>/config/foglight.config* file do not take effect. Use `-X` options to pass the memory parameters straight to the VM.

If your installation supports a large number (100s) of agents, Java heap memory sizes should be set to the same minimum and maximum values. For example, assigning 2 GB of memory can be set in the foglight.config file as follows:

```
# foglight.vm.option0 = "-Xms2048M";
# foglight.vm.option1 = "-Xmx2048M";
```

You can set up to 100 VM options.

Setting the SQL Parser Properties

The following default system properties appear in the *foglight.config* file. The port setting can be changed during the install process, or by editing the *foglight.config* file.

```
# qp5app port and info
foglight.qp5app.max.connections = "10";
foglight.qp5app.port = "8448";
```

Configuring vFoglight to Access the Server Only Through The HTTPS Port

If you do not choose to install vFoglight in Secure Server mode, you can manually configure vFoglight Management Server to restrict the server to use only the https port by editing the< *vfoglight_home*>*config**foglight.config* file. Set the following parameter:

```
foglight.console.httpsonly = "true";
```

You will have to reboot the server after setting the parameter.

Note You must have a signed, valid certificate if you want to use the https-only configuration. Vizioncore recommends that you obtain a valid certificate from a third party as outlined in the following procedure.

Importing a Network Security Certificate

Once you have set the vFoglight Management Server to use only https, you will need to generate a key pair (security certificate) into the vFoglight keystore. This allows the server to communicate through the https protocol. You need to delete the existing certificate shipped with vFoglight before generating a new key pair. Use the keytool utility shipped with vFoglight to create, import, and export certificates. This utility can be found in:

- `$FMS_HOME/jre/bin/keytool`

There are two keystores used by vFoglight:

- The built-in Tomcat keystore located at: `$FMS_HOME/server/default/conf/tomcat.keystore` (default password: `nitrogen`)

- The vFoglight Management Server keystore located at: `$FMS_HOME/jre/lib/security/cacerts` (default password: `changeit`)

To import a certificate:

1. Change directories to the following path:

   ```
   $FMS_HOME/server/default/conf/
   ```

2. Delete the existing tomcat key from the tomcat.keystore directory using the following command:

   ```
   $FMS_HOME/jre/bin/keytool -keystore FMS_HOME/server/default/conf/
   tomcat.keystore -storepass nitrogen -delete -alias tomcat
   ```

3. Create a new key under the tomcat alias using the following command:

   ```
   $FMS_HOME/jre/bin/keytool -keystore FMS_HOME/server/default/conf/
   tomcat.keystore -storepass nitrogen -genkey -alias tomcat
   ```

4. Generate a Certificate Signing Request (CSR) using the following command:

   ```
   $FMS_HOME/jre/bin/keytool -keystore FMS_HOME/server/default/conf/
   tomcat.keystore -storepass nitrogen -certreq -alias tomcat -file
   <your_request_file.csr>
   ```

   This file must be signed by Certification Authority (CA).

5. Once you have the certificate signed, import it back to the `tomcat.keystore` using the following command:

   ```
   $FMS_HOME/jre/bin/keytool -keystore FMS_HOME/server/default/conf/
   tomcat.keystore -storepass nitrogen -import -trustcacerts -alias tomcat -
   file <your_converted_cerificate>
   ```

   You are prompted to enter the keystore password.

6. Type `nitrogen`.

Setting Up an Encrypted Database Connection with SSL

The following procedure outlines how to set up a secure embedded MySQL database connection.

Note This procedure must be performed after installation but before you have started the vFoglight Management Server.

To set up an encrypted database connection with SSL:

1. Import a CA certificate into the vFoglight Management Server keystore (cacerts) as outlined in "Importing a Network Security Certificate" on page 64.
2. Update the MySQL configuration file (*my.ini*) with the new security certificate and key information by adding the following properties:
   - `ssl-ca=<cacert.pem>`
   - `ssl-cert=<server-cert.pem>`
   - `ssl-key=<server-key.pem>`
3. Uncomment and set the `foglight.database.secureconn` attribute in the *foglight.config* file to true, as shown below.

```
#
# For Oracle, this option can be enabled once the database server is
properly configured.
# However, for MySQL, DO NOT enable this option until the database server's
CA certificate is properly imported into $fms_dir/jre/lib/security/cacerts.
foglight.database.secureconn = "true";
```

4. Start the vFoglight Management Server.

Setting Up an Encrypted LDAP Connection with SSL

Follow the directions below if you need to encrypt communication between the vFoglight Management Server and the LDAP server.

To encrypt communication between vFoglight Management Server and LDAP:

1. Acquire the LDAP server certificate in *.pem* format from the administrator.
2. Import the certificate into the vFoglight Management Server keystore (`$FMS_HOME/jre/lib/security/cacerts` (default password: `changeit`)) with the following command:

   ```
   $FMS_HOME/jre/bin/keytool -import -file <path_to_cert_file> -alias ldapsvrcert -keystore <path_to_cacerts>
   ```
3. Go to **Administration** > **Users & Security** > **Configure Directory Services**.
4. Click **Edit**.
5. Enter the LDAP server URL in the following format:

   ```
   ldaps://ldap_server_host_name:636
   ```

Note The port number for LDAP over SSL is usually 636. Confirm the correct port number with your LDAP server administrator.

Uninstalling vFoglight

You can uninstall vFoglight using the uninstaller utility for your platform. The uninstaller can be found in *<vfoglight_home>/UninstallerData*.

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Running the vFoglight Management Server

This chapter contains the following sections:

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Before You Begin

The instructions in this chapter assume that you have already installed vFoglight. If you have not, see “Installing vFoglight” on page 29 for installation instructions.

Migrating Data from an Existing Database

The contents of the MySQL database can be copied to another MySQL instance via an export/import cycle. The following procedure performs a full export of the database. This procedure can be run against a database currently in use by a server.

To export and import a MySQL database:

1. Run the following command from the MySQL command shell:

   ```
   mysqldump -u<username> -p<password> -h<hostname> -P<port> --databases
   <database name> > backup.sql
   ```

   The -h parameter can be omitted if the database is on the same host.

2. Import the database using the following syntax:

   ```
   mysql -<username> -p<password> -P<port> < backup.sql
   ```

   The import process recreates the tables in the database. Therefore, any data that was in the destination environment prior to the import will be lost.

Caution The vFoglight servers must be stopped during the import process.

Note When moving a database between environments, care should be taken to ensure that the vFoglight schema version is lower or equal to the vFoglight server in the destination environment as an upgrade to a new schema is possible (run foglight_db_upgrade.bat|sh or start server with -Dfoglight.database.upgrade=true).

Initializing the Database

If you are using the embedded database, the initialization is performed when you start vFoglight.

Starting and Stopping the vFoglight Management Server

The following sections describe how to start and stop the vFoglight Management Server.

To start the vFoglight Service Manager from the command line:

- Execute the following command:

  <vfoglight_home>\bin\fms.exe

To start the vFoglight Service Manager on Windows:

- Depending on where you installed the startup icon, choose **Start** > **Programs** > **Vizioncore** > **vFoglight** > **Start vFoglight** or double-click the **Start vFoglight** icon on the desktop.

When the server has successfully started, the following message appears in the command window:

```
vFoglight Management Server startup completed.
```

Starting the vFoglight Management Server as a Windows Service

After the installation is completed, you can install the vFoglight Management Server as a Windows service either from the **Start** menu or the command line.

Note The procedures below assume that you have installed the program shortcuts in the default location.

Using the Start Menu Options

To install or remove the vFoglight Service Manager service from the Start menu:

- Choose **Start** > **Programs** > **Vizioncore** > **vFoglight** > **Windows Service** > **Install Service for vFoglight** (or **Remove Service for vFoglight**).

To start or stop the vFoglight Service Manager service from the Start menu:

- Choose **Start > Programs > Vizioncore> vFoglight > Windows Service > Start Service for vFoglight** (or **Stop Service for vFoglight**).

Using the Command Line

From the command line, type the following to install the vFoglight Management Server as a Windows service:

```
fms.exe -i
```

Additional Commands:

Command	Represents	Description
-s	start	Start the vFoglight Management Server (this is assumed if no command is specified)
-q	stop	Stop the vFoglight Management Server
-b	start-service	Start the vFoglight Management Server Windows service
-r	remove-service	Stop and remove the vFoglight Management Server Windows service
-n	name	Provide a unique name for this instance of the vFoglight Management Server service
-j	jvm-argument	Set an option to be passed directly to the Java™ VM (can be used to set more than one VM option)
-v	version	Display the version number for this program and exit
-h	help	Show this information and exit

Stopping the Server

To stop the vFoglight Management Server:

Do one of the following:

- Type **Ctrl-C** in the command window from which the vFoglight Service Manager started.
- In the command line, type:
  `fms.exe -q`
- Depending on where you installed the startup icon, choose **Start** > **Programs** > **Vizioncore**> **vFoglight** > **Stop vFoglight** or double-click the **Stop vFoglight** icon on the desktop.

When the server has stopped successfully, the **Start vFoglight** command window closes.

Logging in to the vFoglight Browser Interface

Note The vFoglight Management Server must be running before you can log in to the vFoglight Browser Interface.

To log in to vFoglight:

1. Depending on where you installed the program icons, choose **Start** > **Programs** >**Vizioncore**> **vFoglight** > **vFoglightConsole**.
2. Enter a valid username and password and click **Login**.

To log in to vFoglight using a web browser:

- Open a web browser and type the following:

  `http://<hostname>:<port>/console/admin/main.action`

  where `<hostname>` is the name of the machine where the vFoglight Management Server is installed and `<port>` is the http port specified during installation (the default is `8080`).

Running the vFoglight Management Server FAQ

When I try to start the vFoglight Management Server using Remote Desktop, an error appears. How can I resolve this error?

There are two options to resolve this problem.

- Use VMWARE Console to start the server.
- Change the JVM options by reducing the memory requirements of the vFoglight Management Server so you can start it using Remote Desktop. To do so, use one of the following methods:
  - On the command line, enter the following:

    ```
    fms.exe -j -XX:MaxPermSize=96m
    ```

  - Edit the *foglight.config* file found in <*vfoglight_home*>*config* and modify the following parameter:

    ```
    foglight.vm.option0 = "-XX:MaxPermSize=96m";
    ```

  After you have used one of these methods, restart the server.

If I close the vFoglight Management Server by clicking the X button on the command window, an error appears when I start up the server again. How do I restart the server?

It is recommended that you do not use this method to stop the vFoglight Management Server. However, if you do use this method, follow the workaround listed below.

1. If you are using a managed database (for example, a copy of MySQL that is started by vFoglight), stop the database manually before restarting the vFoglight Management Server.
2. Remove the stale *.pid* file that is located in the */state* directory. The logs or the console output inform you which *.pid* file to remove when you restart the server.

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Appendix A: Switching from an Embedded to an External Database

You may find a performance improvement in vFoglight if you use an external database.

This appendix contains the following section:

Converting to an External Database.....76

Converting to an External Database

This section describes how to migrate and reconfigure an embedded database used with the vFoglight Management Server to an external database.

1. Stop the vFoglight Management Server.
2. Start the embedded database manually:

   ```
   <vfoglight_home>/bin/runDb.sh
   ```
3. Export the database content:

   ```
   <vfoglight_home>/mysql/bin/mysqldump -uroot --port=13306 --
   databases foglight > <fms_home>/foglight.dump
   ```
4. Shut down the database:

   ```
   <vfoglight_home>/bin/shutdownDb.sh
   ```
5. Connect to the external MySQL instance via MySQL:

   ```
   <vfoglight_home>/mysql/bin/mysql -h [mysql host] -P [mysql
   port] -u root -p
   ```
6. Create the vFoglight database instance by running:

   ```
   mysql> source
   <vfoglight_home>\scripts\sql\mysql_create_db.sql
   ```
7. Re-import the data dump:

   ```
   mysql> source <vfoglight_home>/foglight.dump
   ```
8. Configure the vFoglight Management Server to use this new database by opening the following file:

   ```
   <vfoglight_home>/config/foglight.config
   ```
9. Update the following values in the above file:

   ```
   foglight.database.host = "[mysql host]";
   foglight.database.port = "[mysql port]";
   foglight.database.embedded = "false";
   ```

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